



National Industrial Innovation Award

An introduction of 2023 winners

8TH



Main Category

01 Organization

Distinguished Enterprise Innovation Award (General Enterprises)	10
Distinguished Innovation Award for Academic and Research Institutions	12
Outstanding Enterprise Innovation Award (General Enterprises)	14
Outstanding Enterprise Innovation Award (Small and Medium Enterprises)	30
Outstanding Enterprise Innovation Award (Startups)	44
Outstanding Innovation Award for Academic and Research Institutions	52

02 Team

Innovative Trailblazer Team Award	58
Regional Innovation Contribution Award	70

03 Individual

Innovative Elite Award (General Individual Category)	74
Innovative Elite Award (Female Category)	86
Innovative Elite Award (Youth Category)	92
Industry-Academia Collaboration Award	102

Origin

According to the “Industry Innovation Regulations” in 2010, the Ministry of Economic Affairs has held the “National Industrial Innovation Award of the Ministry of Economic Affairs” since 2011 (hereinafter referred to as the “Innovation Award”). Through the national award selection campaign, we hope to set up a learning model for industries, to converge the energy of industry, academy and research, with “innovation, employment, distribution” as the core value, to pursue a new economic model of sustainable development, to break through the industrial development limitations of our country, and to effectively enhance industrial competitiveness.

The Industry Innovation Awards emphasize on innovation, focusing on the humanities, technology and service energy which create value-added benefits for industries. The establishment of multiple awards respectively rewards the “integration and innovation” and “cross-boundary cooperation” of the industry, academy and research community, and further creates value-added industrial innovation organizations, teams and individual models. In order to encourage the excellent performance of the members in the innovation system, besides general enterprises and organizations, the awards are designed to cover small and

medium-sized enterprises, Startups, women and young people. To encourage academics to promote industry-academia cooperation, individuals also have incentives for “Industry-Academia Collaboration”. The range covers strategic fields such as Electromechanical and Transportation Sector, ICT Sector, Biomed, Material, and Chemical Sector, Service and Cultural and Creative Sector. It also encourages all sectors to combine the regional characteristics to promote the stage breakthrough achievements and performance of the local industry innovation and development.

Industrial development is vital to the sustainable growth of national economy. Every unit invested in research and development, every technical or design talent, and every innovative idea are the key forces that drive industrial innovation. This award provides a credible platform that evaluates innovation competitiveness. Through each campaign, in addition to selecting companies, academic and research institutions that contribute to the industry and make the people feel moved, we expect to guide the industry, academia and research circles to break away from the technology-based thinking through these successful examples of innovation. Also, they can invest in service innovation, aesthetic elements, and then push up the value of the manufacturing in the middle of the smile curve, to achieve the ultimate goal of “Servitization of Manufacturing” and “Technological Service”. The Ministry of Economic Affairs looks forward to not only creating an atmosphere of industrial reform, but also continually stimulating domestic innovation engines through activities that discover innovations and giving credit to industry models. Therefore, all award-winning enterprises, schools, corporations and experts can conduct a rational dialogue and exchange. More importantly, with the mechanism of Industry Innovation Awards, the innovative models of Taiwan industry can be recognized, and we hope that this

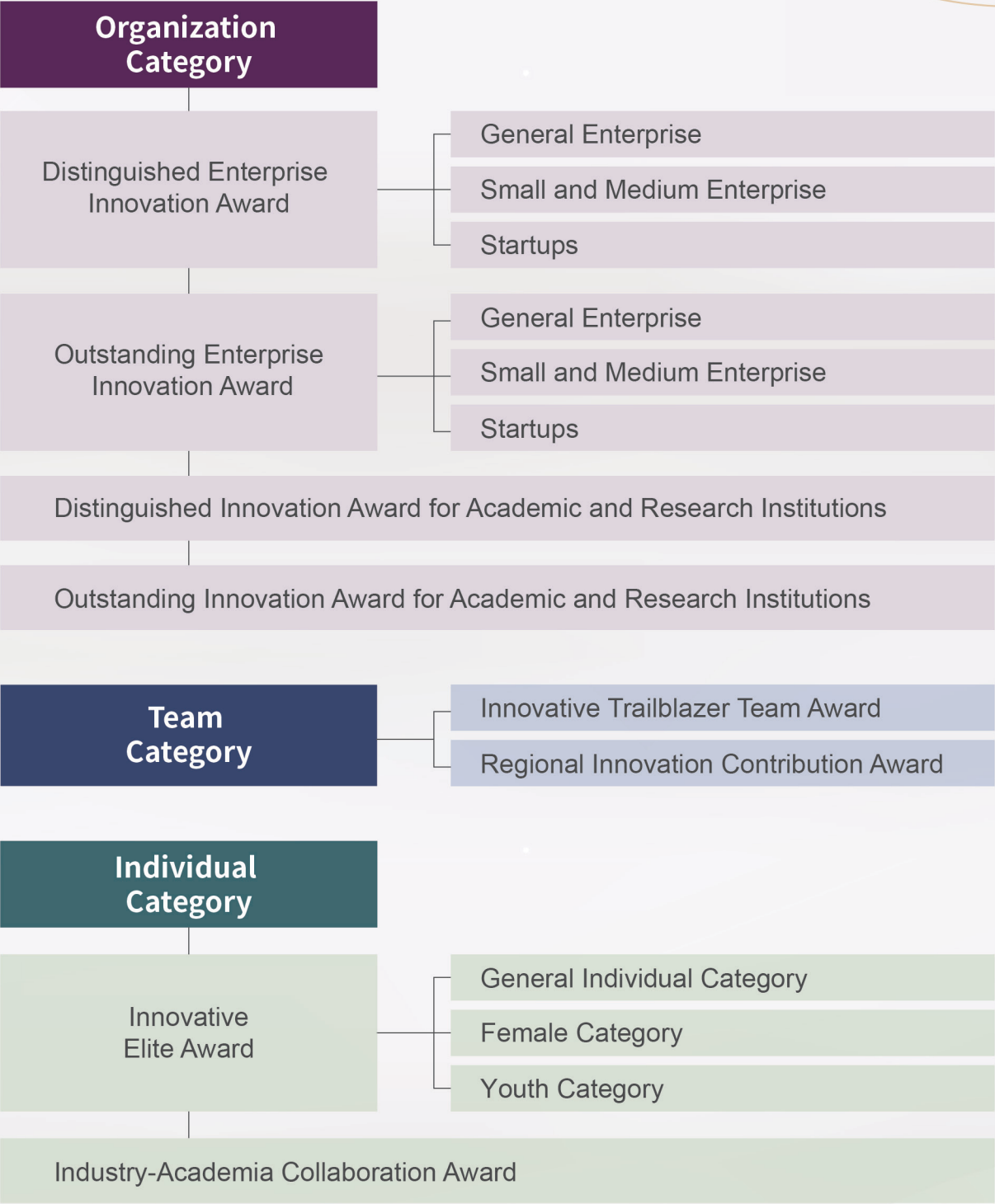
award can accelerate the transformation of our industry, enhance international competitiveness, and create new value for Taiwan’s industry.

The economy in Taiwan is going through a critical time of rising. In order to promote diverse innovation in the industry, the Ministry of Economic Affairs has edited this special book to share the stories and the innovation competitiveness of the 46 award-winning units. We hope that through the cooperation of all circles, we can transform the critical innovation energy of domestic industry. “Demand drives innovation, and innovation drives industry upgrade.” Let’s make a fresh start and launch the innovation, and together we can create a new blue ocean!



Nomination Catagories

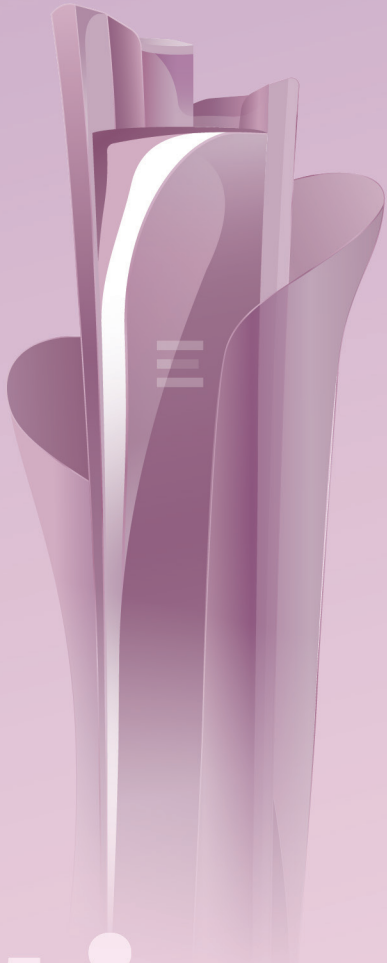
Group	Group Industries
Electromechanical and Transportation Sector	This category includes the metal, electrical and mechanical, transportation vehicles, automotive electrical components, automatic control, precision instruments and other energy-based industries.
ICT Sector	This category includes the semiconductor, IC design, display panel, computer and peripherals, communications and networking, mobile phone and telecommunication equipments, electronic components, and software, optoelectronics and optics industries.
Biomed, Material,and Chemical Sector	This category includes the new agriculture, medical and biotechnology, healthcare, food, materials, petrochemical industries, textile, glass and ceramics, green energy materials, and recycling technology industries.
Service and Cultural and Creative Sector	This category includes the cloud computing services, information services, testing services, logistics and storage, transportation services, technology services, human resources, trade and retail, engineering consulting services, financial insurance, cultural and creative, digital content and publishing, restaurant and tourism industry, intellectual properties management, education, and architectural design industries.



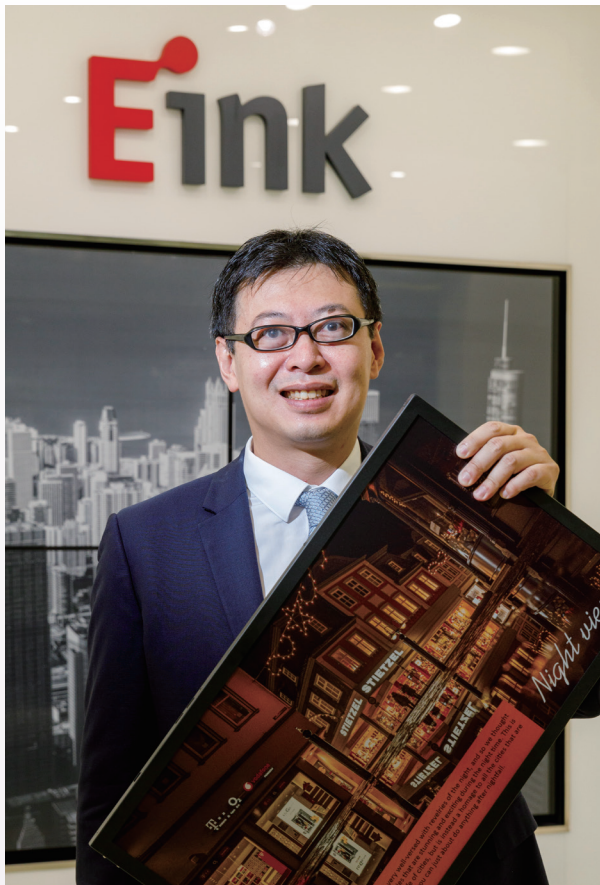
Organization Category

Distinguished Enterprise Innovation Award (General Enterprises)	
E Ink Holdings Inc.	10
Distinguished Innovation Award for Academic and Research Institutions	
Office of Business Development, Taipei Medical University	12
Outstanding Enterprise Innovation Award (General Enterprises)	
AEON MOTOR CO., LTD.	14
Utechzone Co., Ltd.	16
ELAN Microelectronics Corp.	18
PlayNitride	20
Advanced Echem Materials Company Ltd.	22
Allied Supreme Corp.	24
Taipei Rapid Transit Corporation	26
Gain How Printing Enterprise Co., Ltd.	28

Outstanding Enterprise Innovation Award (Small and Medium Enterprises)	
MARWI Taiwan Industrial Co., Ltd.	30
CHD Technologies Co., Ltd.	32
Auden Techno Corp.	34
LiteMAX Electronics Inc.	36
BiOptic Inc.	38
CH Biotech R&D Co., LTD.	40
Global Power Technologies Co., Ltd.	42
Outstanding Enterprise Innovation Award (Startups)	
Yun Yun AI Baby Camera Co., Ltd	44
Ever Supreme Bio Technology Co., Ltd.	46
MacroMicro Co., Ltd.	48
Turn Cloud Technology Service Inc.	50
Outstanding Innovation Award for Academic and Research Institutions	
Metal Industries Research & Development Centre	52
Service Systems Technology Center of the Industrial Technology Research Institute (ITRI)	54



Organization



Key Features

Founded in 1992, E Ink has risen to become the global leader in electronic paper manufacturing, commanding over 90% of the worldwide ePaper market with its distinctive technology. Its products, known for their minimal power usage and eco-friendly properties, are perfect fits for a wide range of applications. As a staunch advocate for green technology, E Ink champions net-zero carbon emissions. It has set ambitious sustainability goals by obtaining green certificates and working on process enhancements to fully transition to renewable energy by 2030. Leveraging its global presence, E Ink aspires to establish a distinctive industry zone for its co-branded ePaper products. With the adoption of innovative business models, it is fostering a robust and comprehensive supply chain and actively broadening its range of key components to deliver better user reading experiences. By forging partnerships across industry, academia, and research, E Ink is rapidly extending ePaper products to a variety of scenarios making surfaces as smart as possible. In the pursuit of its sustainability goals, it plans to expand its footprint into emerging markets, contributing to the realization of carbon-neutral smart cities worldwide.

Business Philosophy

E Ink is set on merging profitability with sustainability, anchored on driving green revenues across our product portfolio. We are committed to implementing our unique P, E, S, G (product, environment, society, governance) framework to realize net-zero carbon emissions.

— Johnson Lee, CEO —

Company Profile & Business Contact Information

Core Business	ePaper film, ePaper module for display panel
Chairman of the board	Johnson Lee
Address	No.3, Lixing 1st Rd., Hsinchu Science Park, Hsinchu 300, Taiwan
Tel	886-3-564-3200
Website	www.eink.com

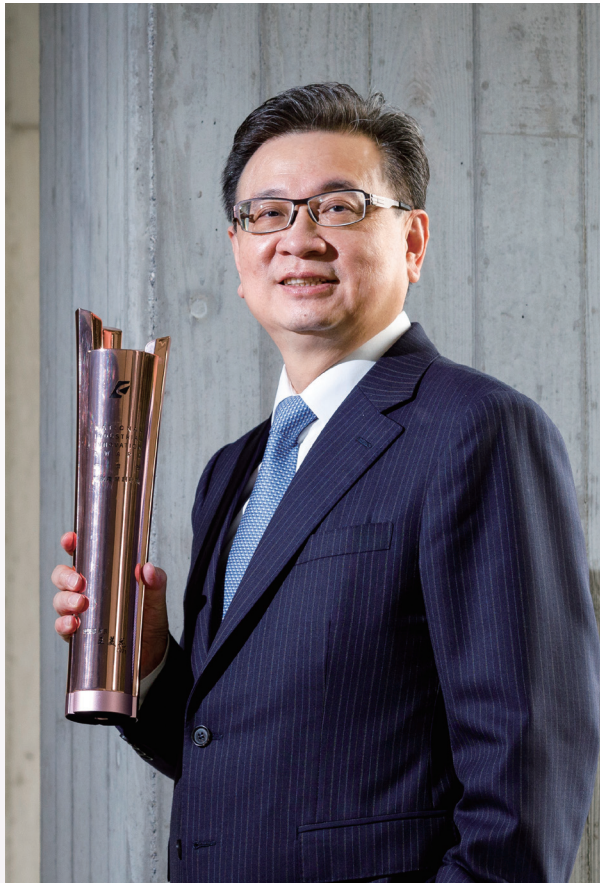
Awards Acceptance Statement

We express our deepest gratitude to the Ministry of Economic Affairs and the judging panel for this esteemed recognition. It is with great honor that E Ink Holdings accepts the Distinguished Enterprise Innovation Award at the 8th National Industrial Innovation Award. This accolade serves as a significant validation of the hard work and dedication of our entire E Ink team.

E Ink's core technology lies in the innovation and advancement of ePaper. Throughout the years, our dedicated team has relentlessly pursued R&D, evolving from the initial stages of black and white ePaper to the sophisticated color ePaper today. ePaper has transcended its applications beyond just eReader, now playing a significant role in smart city solutions.

ePaper is characterized by its ultra-low power consumption and eye-friendly features. We are fully committed to further R&D to drive innovation and expand our business in ePaper technology. According to FTSE Russell based in the UK, E Ink derives 99.9% of its revenue from ePaper products. This underscores our substantial low-carbon benefits and specialized market positioning.

E Ink is equally dedicated to advancing work in ESG development. We have developed a distinctive PESG (Product, Environment, Social, and Governance) framework and are working alongside our ecosystem partners to achieve the goal of zero carbon emissions, embodying our company's vision: E Ink - We Make Surfaces Smart and Green.



Awards Acceptance Statement

Universities bear a dual responsibility: not only to nurture talent but, more importantly, to contribute to national and societal development, exerting a meaningful impact. Taipei Medical University (TMU) aspires to be a trailblazing institution, focusing on medical education with a strong emphasis on biomedical clinical applications, while making a substantial social impact. Our mission is fostering medical innovation, integrating with industry networks, and building a robust ecosystem for biomedical innovation and entrepreneurship. Over the years, we've developed an Bio ecosystem for nurturing talents in medical biotechnology, creating an environment that synergizes industry, academia, and government. Furthermore, an international platform dedicated to technology transfer and the acceleration of startups is also in place.

Winning the Distinguished Innovation Award for Academic and Research Institutions is a great encouragement for TMU. Looking ahead, the Shuang-Ho Campus is set to become Taiwan's only biomedical park that unites universities, medical centers, and the biomedical industry. This integration will expedite the advancement of biomedical innovation and the commercialization of research outcomes. TMU will continue to further enhance our capabilities in education, research, industry-academia collaboration, and healthcare, striving to set the standard for innovative universities in Taiwan. We will also collaborate with both government and private entities to amplify Taiwan's global influence.



Key Features

Taipei Medical University's Office of Business Development is guided by the principle of industry-academia co-creation and sustainable development. Its Biomedical Talent Cultivation Initiative encourages innovation commercialization via a platform for promoting startups. It has mentored over 80 innovative R&D teams and aided in spinning off 28 startups. It established Taiwan's first university BioMed Accelerator, introducing innovative technology business models and clinical validation to break into the Asian market. To date, it has guided 49 domestic and international biomedical startups, positioning TMU as a gateway to the APAC market. In addition, TMU has built a comprehensive biomedical park at its Shuang-Ho Campus, combining a medical university, medical center, and biomedical industry. This enables a robust medical and health industry chain, tapping into TMU's innovation and startup ecosystem to foster a new generation of medical and biotech talents, exerting its societal influence.

Business Philosophy

Building on the philosophy of heritage, innovation, and focus, alongside a visionary leadership model, Taipei Medical University continuously strives for excellence and sustainability to exert its social influence.
— Chien-Huang Lin, President —

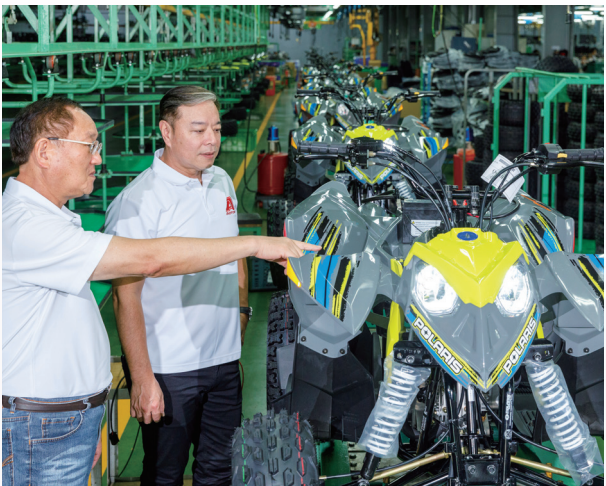
Company Profile & Business Contact Information

Core Business	Taipei Medical University (TMU) is a collegiate academic institution with an extensive history in Taiwan.
Chairman of the board	Chien-Huang Lin
Address	No.250, Wuxing St., Xinyi Dist., Taipei City 110, Taiwan
Tel	886-2-2736-1661
Fax	886-2-2378-7795
Website	https://www.tmu.edu.tw



Awards Acceptance Statement

Aeon Motor extends heartfelt appreciation for the hard work of our employees, the valued recognition and support from our customers, and the invaluable guidance from the Industrial Development Bureau. These contributions have been instrumental in our growth and the accolades we've received, including the International Trade Awards and Rising Star Award in 2005, the Taiwan Excellence Gold Award in 2016, the Taiwan Excellence Silver Award in 2017, the 4th Taiwan Mittelstand Award in 2017, the Taiwan Excellence Silver Award in 2022, and the National Industrial Innovation Award in 2023. Aeon Motor expresses our sincere gratitude to the National Industrial Innovation Award team and judging panel for acknowledging our innovative accomplishments. Moving forward, Aeon Motor remains committed to ongoing innovation, developing new vehicle products, and venturing into new market territories.



Key Features

Aeon Motor prioritizes investing in innovative technologies for two-, three-, and four-wheeled motorcycles, as well as ATVs. Originating in Taiwan, its Aeonmotor brand is known for electric and fuel-powered motorcycles, enjoying the second-highest market share in electric motorcycles and successfully building a brand image that aligns with ESG endeavors. The distinct innovative value is evident in Qooder, the first mass-produced four-wheel motorcycle accredited with EU certification. It has launched a road-ready three-wheeled motorcycle in Taiwan and leads the youth ATV market in North America. Aeon Motor leverages its product supply network as the foundation to forge alliances with up and downstream supply chains and brand customers to develop and sell products. Successfully navigating diverse markets, including those centered on heavy-duty, diverse, recreational, lifestyle, and creative applications, it has built a robust collaboration across industry, academia, and research. With over 95% local sourcing, it supports job creation and has garnered numerous national accolades.

Business Philosophy

We create and deliver real-time value for customers through technology and speed, and also explore brand development trends through innovation and renovation.

— Allen Chung, Chairman —

Company Profile & Business Contact Information

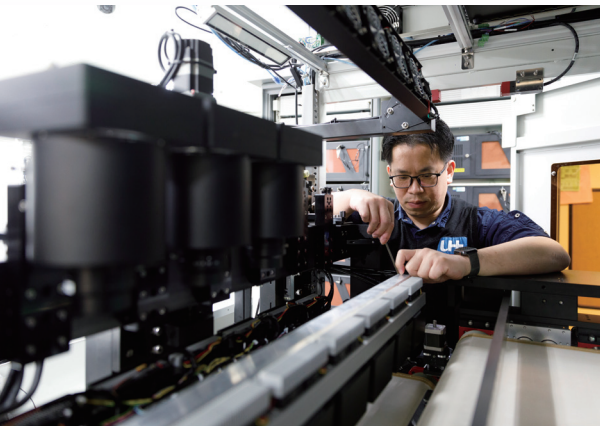
Core Business	Develop smart electric motorcycle, general motorcycles, ATV (All-Terrain Vehicle), UTV (Utility Vehicle, multi-functional off-road vehicle) and other products.
Chairman of the board	Allen Chung
Address	No. 41, Nanzhou, Shangshang Dist., Tainan City 74342, Taiwan
Tel	886-6-5783988
Fax	886-6-5783355
Website	https://www.aeonmotor.com.tw/



Awards Acceptance Statement

For over three decades, UTECHZONE has been at the forefront of optical inspection, anchored by machine vision as our cornerstone technology. We integrate optics, mechanics, electronics, and software to emulate human vision, cognition, and manual dexterity. As a specialized provider in Asia for the electronic manufacturing sector, our optical inspection equipment has helped lower labor costs. We aid in enhancing production yield and efficiency, facilitating automation in production lines, and establishing a robust groundwork for Industry 4.0, while relentlessly progressing towards Industry 5.0.

UTECHZONE's hard work has resulted in the creation of a suite of precision testing equipment, focusing on niche industries and a research-driven approach. Moving forward, we remain steadfast to our founding principle of advancing industry upgrades. We will persistently innovate and enhance our technology, ensuring our active participation in Taiwan's path to becoming a frontrunner in the electronics industry.



Key Features

UTECHZONE, a professional automatic optical inspection (AOI) manufacturer in Taiwan, is committed to providing high-quality and innovative products and services. It enjoys a leading market share in optical inspection and has accumulated the highest sales volume globally in inspection equipment for high-end PCBs and advanced panels. With an intellectual property presence in 10 countries, it has 487 approved patents. In recent years, it has launched a new high-speed Auto Optic-Guided Machine (AOM) for full board metrology and semiconductor inspection equipment to assist customers in optimizing production capacity and market competitiveness. Using a project-driven approach, it quickly amasses advantages and gains customer trust, leading domestic equipment manufacturers into a new phase of domestic substitution. Multiple quality management certifications boost its global competitiveness. UTECHZONE has forayed into the international markets, establishing locations throughout Taiwan and overseas to provide customers with real-time after-sales service and sales channels. Additionally, it has innovatively launched an eye-tracking system for patients with limited mobility, creating a new type of service experience and fulfilling its social responsibility to support disadvantaged communities.

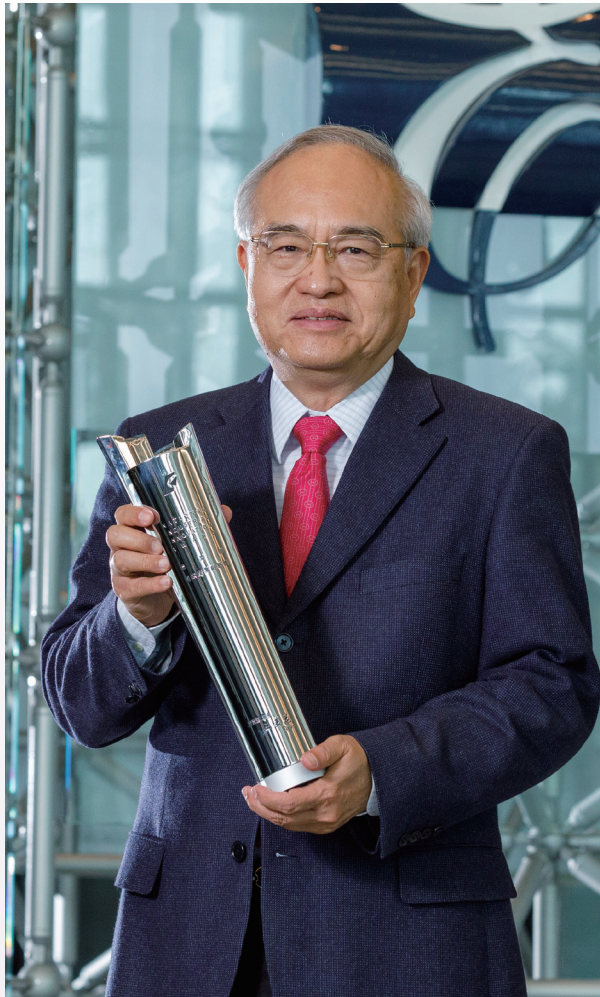
Business Philosophy

Our focus lies in fostering technological innovation and forward-thinking strategies. We anticipate and satisfy our customers' future needs, establish competitiveness with our N+1 approach, and deliver uniquely tailored product specifications and services.

— Joseph Tzou, President —

Company Profile & Business Contact Information

Core Business	Automatic Optical Inspection System
Chairman of the board	Joseph Tzou
Address	10F, No. 268, Liancheng Rd., Jhonghe District, New Taipei City, 23553, Taiwan
Tel	886-2-8226-2088
Fax	886-2-8227-8939
Website	https://www.utechzone.com.tw/



Awards Acceptance Statement

We thank the Ministry of Economic Affairs and the judging panel for their acknowledgment. Receiving the National Industrial Innovation Award stands as the greatest source of encouragement for our team.

ELAN, recognized worldwide as a leader in the manufacturing of human-machine interface chips, boasts a range of products that maintain a leading market share. With an unwavering focus on enhancing quality, we aim to improve hardware specification, elevate product value, and steadily increase the contribution per laptop production. Simultaneously, we are constantly expanding our product range and application horizons, proactively venturing into areas such as automotive electronics, foldable phones, biometric smart cards, mini/micro-LED displays, and advanced driver assistance systems (ADAS).

Encouraged by the recognition of this award, we will continue to commit to our business philosophy of constant innovation, integrity, mutual benefits, and long-term commitments. Our mission is to offer comprehensive system integration solutions that generate greater value and contribution to the society.



Key Features

Since its establishment in 1994, has consistently focused on the human-machine interface touch control industry and achieved remarkable results. Not only do we hold world's highest market share of various products, but we also boost 312 patented technologies. From Windows 8 to 10 and 11, ELAN's touch ICs have always been the first in the world to be certified by Microsoft. Now, it is making inroads into the display and touch module for smart vehicle cabins. ELAN pioneered the under PVC battery-free fingerprint sensor smartcard, using AI technology for anti-counterfeit biometrics and building a high-profit touch smartcard industry chain. Last but not least, ELAN is also actively engaged in AI industrialization, collaborating with various sectors in industry, academia, and research to create the fastest and most accurate edge computing AI object detection technology in the world. Its advanced driver assistance systems (ADAS) development facilitates the creation of key technologies for smart vehicles and accelerates AI industrialization on a global scale.

Business Philosophy

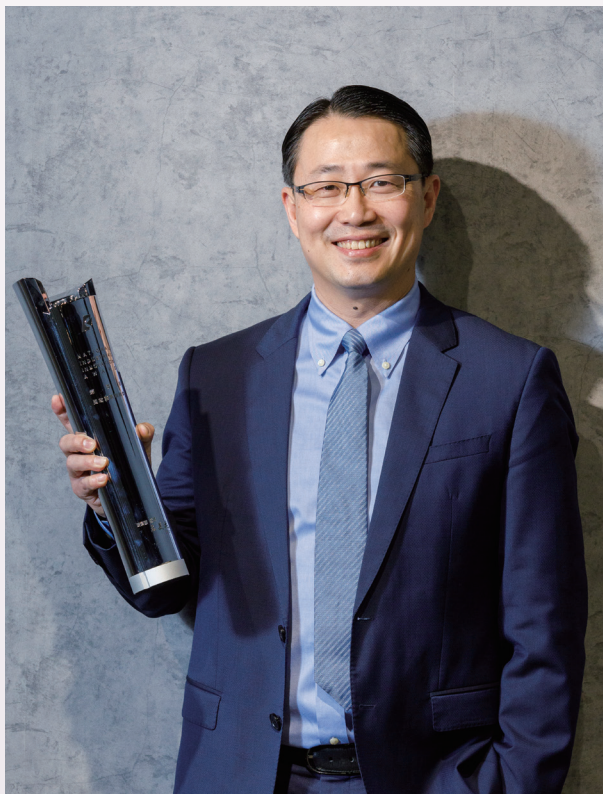
We uphold the business philosophy of constant innovation, integrity, mutual benefits, and long-term commitments to actively promote progress in the economy, environment, and society. It's how we achieve the goal of sustainable development.

— I. H. Yeh, Chairman —



Company Profile & Business Contact Information

Core Business	1.Touchscreen Controller	2.Touchscreen Controller with Pen
	3.Touchpad Module	4.Pointing Stick
	5.Biometric Solutions (fingerprint sensors and facial recognition solutions)	
Chairman of the board	I. H. Yeh	
Address	No. 12, Chuangxin 1st Rd., Baoshan Township, Hsinchu County 30092 , Taiwan (R.O.C.)	
Tel	886-3-563-9977	
Fax	886-3-563-9966	
Website	http://www.emc.com.tw/emc/tw	



Awards Acceptance Statement

We are deeply honored to be the recipient of the esteemed Outstanding Enterprise Innovation Award, the pinnacle of recognition in national industrial development from the Ministry of Economic Affairs. For PlayNitride, receiving this award is both a prestigious honor and a significant affirmation of our efforts. Since our inception in 2014, our focus has been on developing holistic solutions in MicroLED technology. This dedication has earned us both domestic and international recognition. In 2019, we pioneered the world's first production line for MicroLED. In 2020, we received the Special Recognition Award from the Society for Information Display (SID). Then, in 2022, marking another milestone, we became the first company to be listed on the Taiwan Innovation Board. We are proud that, despite having to navigate challenges along the way, we have boldly progressed and established ourselves as the trailblazer in Taiwan's MicroLED industry. Thank you.



Key Features

PlayNitride is a global pioneer in MicroLED solutions. It has successfully developed the world's highest density 4,536ppi full-color MicroLED microdisplay, one of the best resolutions for AR glasses currently available. With its cutting-edge technology and innovative products, it has attracted collaborations from many globally renowned enterprises. It's also assisting domestic businesses in establishing MicroLED production lines and contributing to the transformation and upgrade of Taiwan's panel industry. PlayNitride was awarded Best Display Technology at SID DisplayWeek 2022, and in the same year, it went IPO on the Taiwan Stock Exchange, becoming the first listed company on the Taiwan Innovation Board. PlayNitride actively promotes industry alliances and participates in the key technological development of future automobiles. Together with Taiwan's panel industry, it has established a national team to expedite the development and production of next-generation MicroLEDs. With the future value of MicroLED estimated at up to US\$20 billion, it is eyeing the global market with the support of the 150,000-strong workforce of Taiwan's panel industry chain.

Business Philosophy

Turning impossibles into possibles, maintaining an upbeat and innovative spirit, moving forward towards our goals, yet always remaining highly adaptable—this is how we grow. Over the years, PlayNitride has always focused on technical R&D. We protect patents like trade secrets and place importance on the voices of every employee. Guided by the spirit of people-oriented governance, we have arrived where we are today. And we will continue to innovate and grow with the MicroLED industry.

— Charles Li, Chairman —

Company Profile & Business Contact Information

Core Business	MicroLED Total Solution
Chairman of the board	Li, Yun-Li (Charles Li)
Address	No.13,Kezhong Rd., Zhunan Township, Miaoli County 350401, Taiwan (R.O.C.)
Tel	886-37-586-610
Fax	886-37-584-989
Website	www.playnitride.com



Key Features

AEMC is a chemical material manufacturer that has been rooted in Taiwan for over 19 years, focusing on semiconductors, CIS, and optoelectronic technology. Dedicated to the R&D and manufacturing of semiconductor and display applications, it is one of the few material suppliers for advanced semiconductor front-end processes and back-end advanced packaging. It strives to break the monopoly of foreign materials and has co-developed advanced process materials with local clients. Leveraging customization, high quality, and innovation, it has become Taiwan's first optoelectronic industry special photoresist material manufacturer with mass production capabilities. Over the past five years, it has been granted 82 patents. It aspires to develop innovative products, promote sustainable business practices, create a green and low-pollution production environment, and continue to lead the integration of Taiwan's semiconductor materials industry supply chain.

Business Philosophy

We contribute to the advancement of superior semiconductor manufacturing formula materials in Taiwan and help establish an upstream synthetic industry chain. Simultaneously, we cater to our customers' needs, assisting them in creating a competitive edge through differentiation.

— Wen-Hsiung Chan, Chairperson —

Company Profile & Business Contact Information

Core Business	Specialty Chemical Designing & Manufacturing
Chairman of the board	Wen-Hsiung Chan
Address	No. 455, Sinhe Rd. Sanhe Villiage, Longtan 325, Taoyuan, Taiwan
Tel	886-3-4072100
Fax	886-3-4072198
Website	https://www.aemc.com.tw/

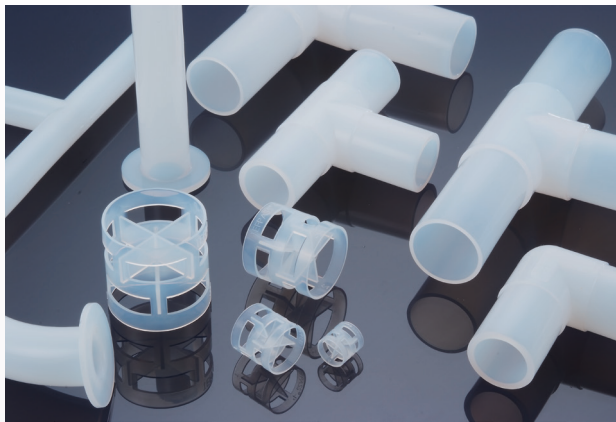
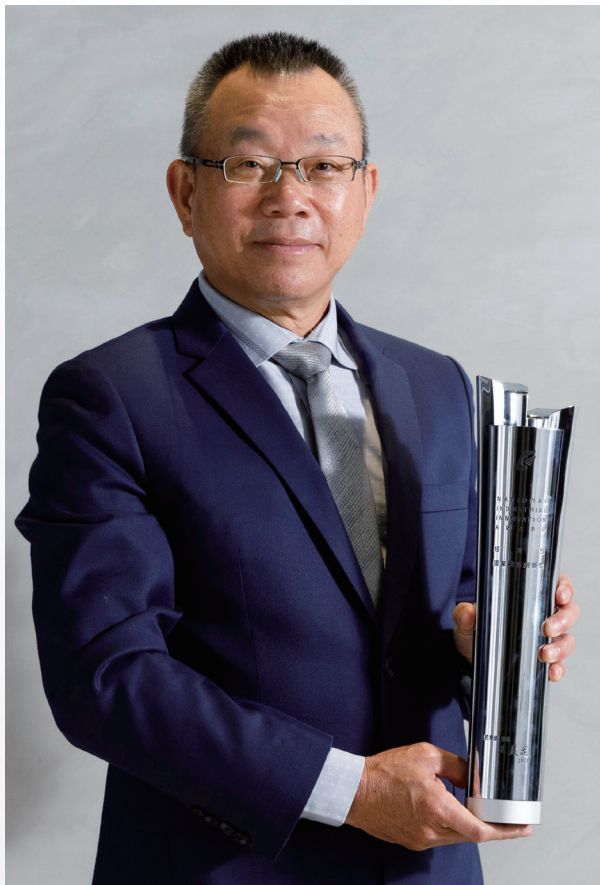
Awards Acceptance Statement

Our mission is to drive continuous innovation, deliver the most valuable products, and achieve mutually beneficial outcomes for both our customers and Advanced Echem Materials Company (AEMC) ! The company's English name has been changed from eChem (ECSC) to AEMC in 2023.

We are immensely grateful for the acknowledgment from the Ministry of Economic Affairs and the judging panel. As we approach our 20th anniversary at AEMC, being honored with the National Industrial Innovation Award marks a significant milestone for our company and serves as a tremendous source of encouragement for all of us.

For years, we have been guided by the principle of "fulfilling entrusted missions" and embraced a business strategy centered on independent innovative design, swift product development, Made in Taiwan mindset, and prompt, efficient customized service for providing specialized chemical materials. This approach has enabled us to break Taiwan's longstanding dependence on foreign materials suppliers in the semiconductor industry. As a result, we have emerged as one of the select few suppliers in Taiwan capable of providing essential chemicals for both advanced front-end processes and back-end packaging in the semiconductor sector.

As we look to the future, our company remains dedicated to investing in Taiwan, making more bespoke materials for local semiconductor manufacturers to boost the global competitiveness of Taiwan's semiconductor players. We are firmly committed to contributing to the autonomy of semiconductor materials in Taiwan.



Key Features

Established for over forty years, Allied Supreme specializes in the R&D and application of fluoropolymer processing. It has gradually expanded from the traditional coating industry into pharmaceuticals and electronics, and further extended into the high-tech industry. Over time, it has enhanced its innovation of strategic products to become the world's first one-stop fluoropolymer processing and application service provider. It aids customers in integrating fluorine materials, equipment, and products, and enables the traceability of each product's manufacturing process to effectively improve product safety. It also finetunes chemical data formulas to provide products with higher cleanness, permeability resistance, and easy-to-clean features, as well as to prevent blockage and isolate contamination in the manufacturing process. It supports businesses in achieving a green circular economy through professional recycling technology.

Business Philosophy

Integrity is our bedrock. Dedicated to creating value for our customers, Allied Supreme aims to be the best fluoropolymer company through continuous innovation and improvement, providing customers with the best products and services.

— John Hou, Chairman —

Company Profile & Business Contact Information

Core Business	ASC is committed to various processing applications of Fluoropolymer, including fluoropolymer materials, fluoropolymer lining and fluoropolymer engineering.
Chairman of the board	John Hou
Address	4th Fl., No. 12, Ming-Tsu E. Rd., Taipei 10461, Taiwan, R.O.C.
Tel	886-2-2597-6222
Fax	886-2-2595-5626
Website	www.alliedsupreme.com

Awards Acceptance Statement

We extend our gratitude to the judging panel for their affirmation of Allied Supreme. This esteemed recognition, attained through substantial effort, is deeply appreciated.

With four decades of expertise in producing and manufacturing fluoropolymer materials and equipment, we have built a reputation for quality and comprehensive, one-stop service. Our extensive experience in brand management has equipped us with deep insights into our customers' needs and expectations. We excel in swiftly integrating development and delivering all-encompassing services, positioning ourselves as an essential player in high-end industries like specialty chemicals and semiconductors. We are steadfast in our commitment to enhancing our fluorine processing capabilities and pursuing excellence in all we do.

Innovation is not just pivotal for a company's growth; it's also a critical factor in defining the competitiveness of an entire industry and country. We continue to forge ahead in our sector, and we are deeply appreciative of the dedication shown by our colleagues, as well as the support from our partners and customers.

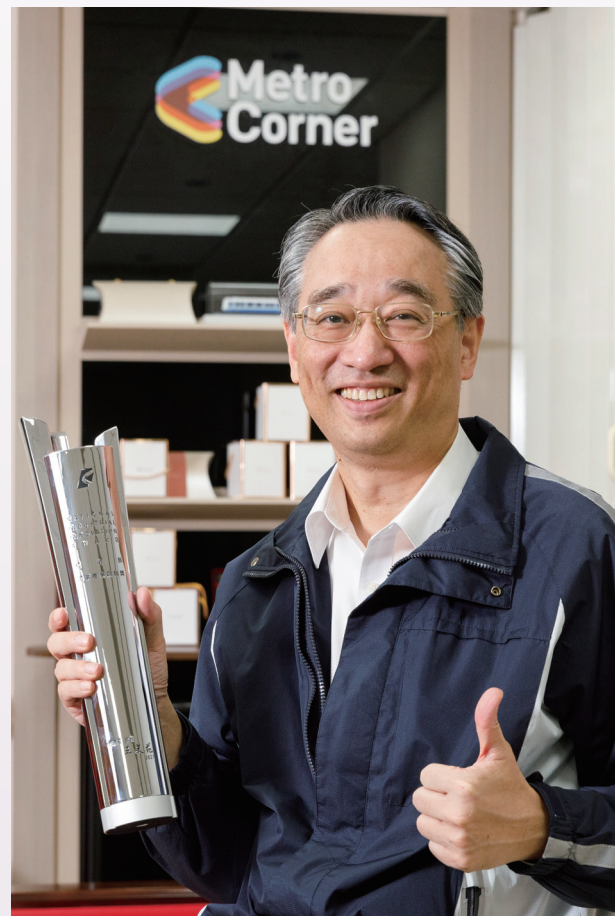
Receiving this award represents both a privilege and a responsibility. As we look ahead, we are eager to collaborate with the government, ready to sustain our influential role in advancing Taiwan's semiconductor industry. Our goal is to offer more solutions and help Taiwan achieve prominence on the global stage.

Awards Acceptance Statement

We are sincerely grateful to the judging panel for recognizing the Taipei Rapid Transit Corporation (Taipei Metro). Receiving the National Industrial Innovation Award is a significant source of encouragement for our team.

For 27 years, the Taipei Metro has operated with the mission to "Provide safe, reliable, and friendly transportation services while pursuing sustainable development". As a leader in Taiwan's metro sector, we hold the conviction that innovation forms the bedrock of our sustainable operations. Consequently, we have harnessed our extensive operational expertise over the years and integrated various technological advancements to consistently enhance the safety, quality, and service standards of the Taipei Metro.

Taipei Metro is more than just a means of transportation but also a catalyst for urban development, regional cohesion, and economic prosperity. In the future, as we pursue excellence in the transportation sector, we will continue to embrace the spirit of innovation to face various opportunities and challenges. Leveraging our capabilities, we aim to foster a more inclusive and age-friendly transport system, ultimately enhancing the quality of urban life for all.



Key Features

Taipei Metro is renowned for its world-class safety and reliability. With smart operations and digital innovation at our core, we have engaged in novel business and cross-domain collaborations such as the New METRO Rail Economy initiative. Our Metro TIMES (Transit Information Management Expert System) allows for flexible dispatching, train operation status monitoring, and passenger flow dispersion to ensure travel safety. We have also developed a unique offering that identifies wheelchair-using passengers through image recognition technology, which then automatically calls the elevator to their floor via IoT technology. Following an organizational revamp, the company is now focused on two major business prospects: transport operations and business development. We aim to further explore innovative technology applications, enhance our diversified passenger services, foster industry partnerships, and continuously refine our core transport business. In 2022, Taipei Metro achieved a record high in the Mean Car-Kilometers between Service-Delay Failure of More than 5 Minutes (MKBF) reliability indicator since its inauguration, positioning Taiwan's rail transportation industry as an international benchmark.

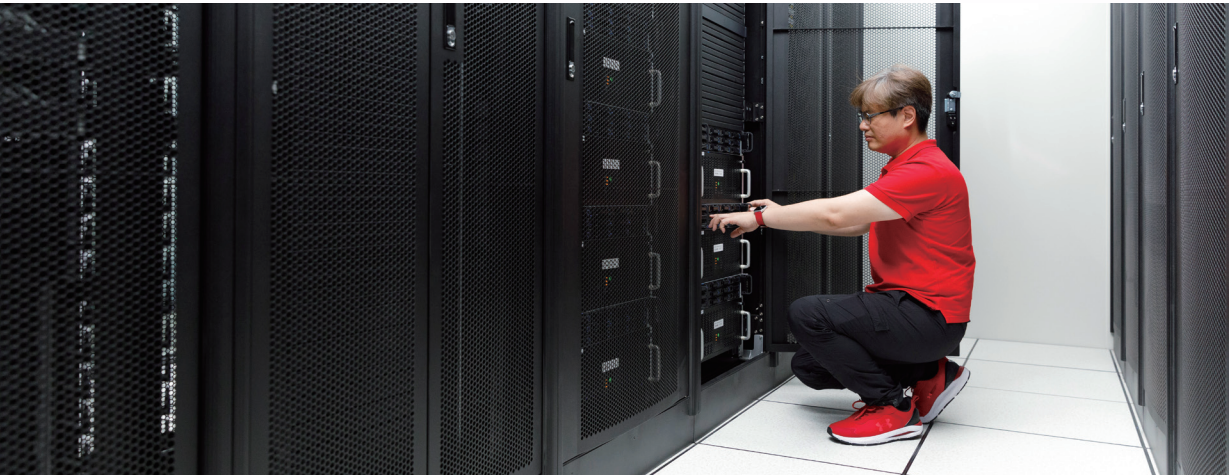
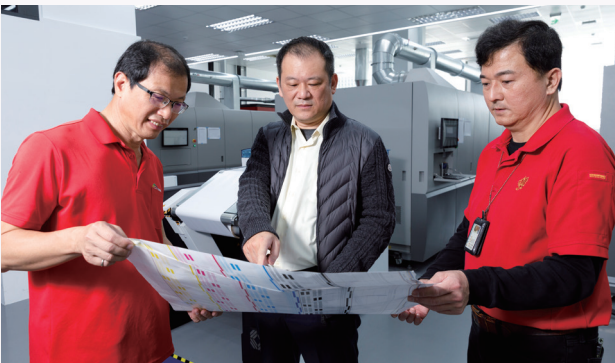
Business Philosophy

Safe and reliable transport service lie at the core of Taipei Metro's values. Fusing this with a mindset of innovation and change, we are journeying from A to A+.

— Huang Ching-shinn, President —

Company Profile & Business Contact Information

Core Business	Taipei Metro's business scope encompasses its core transportation services—overseeing a 131.1 km long metro network comprised of 117 stations—as well as various affiliated and leisure tourism businesses.
Chairman of the board	Chao Shiao-lien
Address	7, Lane 48, Sec. 2, Zhongshan N. Rd., 104216, Taipei City, Taiwan (R.O.C.)
Tel	886-2-2536-3001
Fax	886-2-2511-7945
Website	https://www.metro.taipei/Default.aspx



Key Features

Gain How Printing is dedicated to combining IT technology and digital printing to create a printing e-commerce platform. It aims to weave the printing process into different industries to develop a completely new business model. Having traversed five phases—experience digitalization, software integration, software network integration, cloud integration, and cloud-based products—it has honed three core systems to help small and medium-sized businesses reduce system construction costs and propel the digital transformation of traditional printing. Gain How has established a cloud-based e-commerce platform, integrating the B2B2C business model, which empowers members to quickly edit customized photo albums and printed materials. It also provides a dedicated platform for various industries to meet short lead times and small quantity but varied needs. Its fully automated and smart printing 4.0 factory enhances precision and efficiency, accommodating highly customized demands while broadening global market prospects. The company paves the way for printing factory cross-industry collaboration and digital transformation. It has evolved centralized and decentralized operational models to provide nationwide logistics and delivery service with dedicated vehicles, allowing quick cloud adoption for small and medium-sized enterprises.

Business Philosophy

My steadfast belief is that if you don't even try, you don't even have a chance to fail!
— Hsun-Chia Chang, General Manager —

Company Profile & Business Contact Information

Core Business	Printed Matter 、 Digital Print 、 Online Printing Services
Chairman of the board	Tsui-Lan Yeh
Address	No.230, Chung Ming S. Rd., Taichung, Taiwan, R.O.C.
Tel	886-4-2378-3510
Fax	886-4-2375-1958
Website	www.gding.com.tw

Awards Acceptance Statement

We express our profound gratitude to the judging panel. Our company is truly honored to receive this recognition, and it fills all our employees with immense pride!

"If you don't even try, you don't even have a chance to fail! " I hold firmly to this belief. Our company was previously honored with the Outstanding Enterprise Innovation Award in 2015, and we are delighted to be once again recognized by this prestigious accolade this year. This reaffirms our enduring commitment to innovative R&D. Fostering a shared company culture and achieving our objectives demands significant determination and courage from within the organization.

Steve Jobs once said, "Innovation distinguishes between a leader and a follower." We aspire to become a world-class benchmark enterprise, adopting a fully automated production process and offering employees a smart work environment for production. Our approach to governance has evolved from digitalization to softwareization and then from software innovation to software networking. Our future objective is to continue the transition towards networked and cloud-based operations and commercialization. Through the integration of employees, suppliers, and cross-industry alliances, our goal is to deliver quality products and services that align with customer expectations.

In our 26 years of operation, we have maintained a relentless commitment to innovation. We have actively recruited top-tier IT professionals, forged partnerships for service platform software integration, and collaborated with a robust logistics fleet to consistently deliver the highest-quality service. Moving forward, our team will persist in pursuing continuous innovation for sustainable operations.

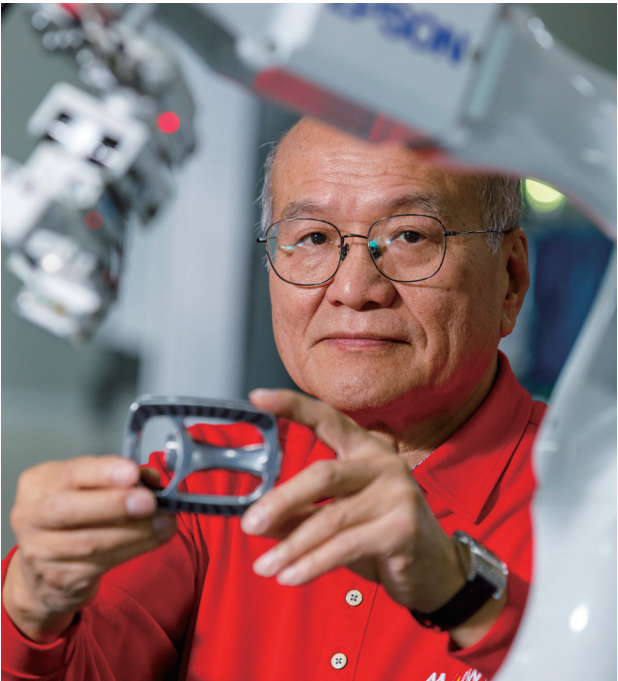
Awards Acceptance Statement

We extend our deepest appreciation to the judging panel for bestowing upon MARWI Taiwan this honor and recognition. This esteemed Outstanding Enterprise Innovation Award acknowledges our enduring commitment and serves as a great source of inspiration for all our employees.

Our company has a strong foundation in the bicycle components industry. Through relentless innovation and R&D efforts, we have evolved the manufacturing of bicycle accessories like pedals and saddles from labor-intensive traditional methods to mechanical automation. Our vision is to establish cutting-edge smart factories and set the standard for the bicycle supply chain.

Moving forward, we remain dedicated to our business philosophy, leveraging global resources and faithfully adhering to sustainable business practices while generating innovative value.

Over the past 40 years, I've lived by "Say what I do and do what I say—consistency in words and actions." It's how we build our good reputation and service based on honesty, integrity, and loyalty. We hope our colleagues can support each other and honor our corporate philosophy: "Lack of loyalty hinders collaboration; lack of filial piety hampers friendship." Let's build up a happiness enterprise and strive towards the goals of MARWI Taiwan.



Key Features

MARWI Taiwan is a prominent international manufacturer of bicycle pedals. Its products, sold in 45 countries worldwide, secure a top three market share globally. The MARWI brand has seized over 50% market share in the European market through a diversified marketing approach. The company established Taiwan's first automated production line for bicycle pedal assembly, significantly improving operational efficiency by 20% and elevating its global competitiveness. It also aims to evolve towards Industry 4.0 and smart factories, endorsing AI-enabled flexible smart production in the supply chain. This includes improvements in digital management regarding personnel utilization, inventory accuracy, production efficiency, and equipment utilization. It also actively advocates its ESG business strategies by using 10% renewable energy in its new factories. It has allied with local industry, government, academia, and research institutions to form the Taichung City Jiaanpu Industrial Association, creating innovative industry-academia cooperation models.

Business Philosophy

"Say what I do and do what I say"—consistency in words and actions. It's how we build our good reputation and service based on honesty, integrity, and loyalty. We hope our colleagues can support each other and honor our corporate philosophy: "Lack of loyalty hinders collaboration; lack of filial piety hampers friendship." Let's work together to build a happy enterprise and strive towards the goals of MARWI.

— Patrick Pai, Chairman —

Company Profile & Business Contact Information

Core Business	High-end bicycle pedal & saddle, fitness equipment pedal & saddle, classic bicycle pedal & saddle, bicycle hanger & bicycle accessories.
Chairman of the board	Patrick Pai
Address	No. 56, Chongyi 3rd Rd., Dajia Dist., Taichung City 437010, Taiwan (R.O.C.)
Tel	886-4-2688-1234
Fax	886-4-2688-2141
Website	http://www.marwi.com.tw/



Awards Acceptance Speech

We are incredibly grateful for the recognition from the judging panel of the National Industrial Innovation Award by the Ministry of Economic Affairs. At CHD TECH, we focus on delivering high-precision process micro-environment control, and energy-saving, carbon-reduction solutions to the high-tech manufacturing sector. Our aspiration is to become a reliable partner, offering strong support to the semiconductor industry in environmental stability and yield enhancement.

We are deeply appreciate for the funding that provided by the A+ Industrial Innovative R&D Program of the MOEA. This support has enabled us to attract exceptional postgraduate talents, establish a comprehensive R&D process, and achieve remarkable milestones in patent technology.

This award recognition serves as a significant source of motivation for CHD TECH. We are committed to consistently delivering the optimal process environment for the world's most advanced processes, and aiding businesses and nations in the pursuit of carbon neutrality.



Key Features

CHD TECHNOLOGIES specializes in semiconductor precision process microenvironment control. Through its in-house R&D, it has broken through the global monopoly to become a leading manufacturer of the high-precision process environment control equipment. To provide sustainable solutions, CHD TECH harnesses ultra-precision temperature, humidity, and AMC control technology as its main technical core to assist its semiconductor clients in moving towards ultra-precision to effectively enhance yield. It also strategically partners with multiple world-class process equipment manufacturers to collectively provide the best process solutions for customers. CHD TECH values net-zero carbon emissions and has been assisting customers in improving energy efficiency for over 20 years, which cumulatively reducing 300,000 tons of carbon emissions. It is the first local equipment supplier in Taiwan to pledge its goal of achieving RE100 by 2030. It aims to realize its carbon-neutral vision while actively contributing to social welfare to truly embed ESG into its culture.

Business Philosophy

CHD TECH has always been dedicated to providing customers with the utmost precision and most energy-efficient process microenvironments. We are the strong backing for the high-tech manufacturing industry to improve yield and environmental sustainability.

— Anderson Ko, Vice General Manager —

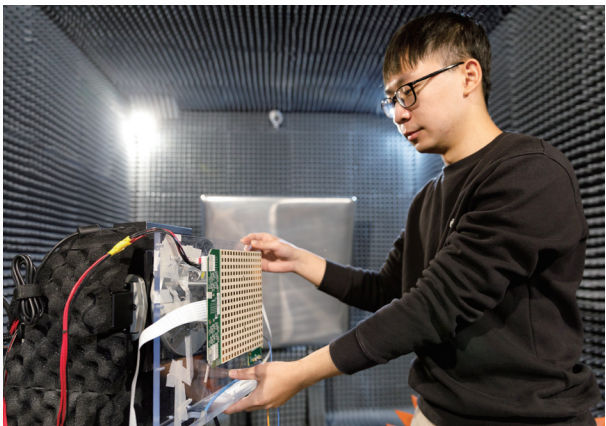
Company Profile & Business Contact Information

Core Business	1. Mini-Environment Control of Advanced Processing
	2. Chemical Contamination Detection & Removal
	3. Total Solution
	4. Energy Saving Service
	5. Cleanroom Construction
Chairman of the board	Steve Cheng
Address	No. 86, Fenggong 2nd St., Hukou Township, Hsinchu County
Tel	886-3-598-6999
Fax	886-3-597-9694
Website	https://www.chd-tech.com.tw/



Awards Acceptance Statement

We would like to convey our heartfelt gratitude to the organizers and judging panel for acknowledging our efforts. Auden Techno commenced our journey as a firm dedicated to antenna design and development. Over the past three decades, we have solidified a deep-rooted presence in the RF antenna market. Leveraging our proficient team and robust R&D prowess, we actively support our clients in diverse wireless application product development initiatives. Our offerings encompass everything from setting up professional measurement equipment, obtaining wireless communication equipment certifications, and advancing antenna technology, to facilitating large-scale manufacturing and offering comprehensive end-to-end design and development services. We pride ourselves as a service business in the technology industry, persistently striving to be better. It's because we believe that there is no perfection, only constant improvement.



Key Features

Auden Group has devoted the past 30 years to driving innovation in the field of wireless communication, from low-frequency to high-frequency, from single antenna to multi-antenna array modules. With its wealth of over one hundred patented technologies and their successful integration into mass production, it offers one-stop antenna design and development services, while working towards the most advanced and forward-looking technological advancements. Recent R&D efforts have seen investments in low-orbit satellites, 5G O-RAN, and antenna RF development. Building on its communication technology, the company has ventured into interdisciplinary fields such as renewable green energy and information security testing services. Its subsidiary Auray Technology is the world's first third-party OTIC laboratory to be approved by the O-RAN Alliance. Through collaboration among industry, government, academia, and research partners, it plays an integral role in promoting the Taiwan 5G Smart Pole Standard Promotion Alliance. It also takes part in the A+ Industrial Innovative R&D Program to develop 5G antenna materials and assists the Bureau of Standards, Metrology and Inspection in establishing a renewable energy certification system.

Business Philosophy

We pride ourselves as a service business in the technology industry, persistently striving to be better. It's because we believe that there is no perfection, only constant improvement.

— Daniel Chang, President —

Company Profile & Business Contact Information

Core Business	1.Antennas Design	2.Testing & Certification Services
	3.Measurement Equipment	4.Wireless Communication Smart Link
Chairman of the board	Daniel Chang	
Address	No. 19, Ln. 772, Heping Rd., Bade Dist., Taoyuan City 334023, Taiwan (R.O.C.)	
Tel	886-3-363-1901	
Fax	886-3-366-0619	
Website	www.auden.com.tw	

Awards Acceptance Statement

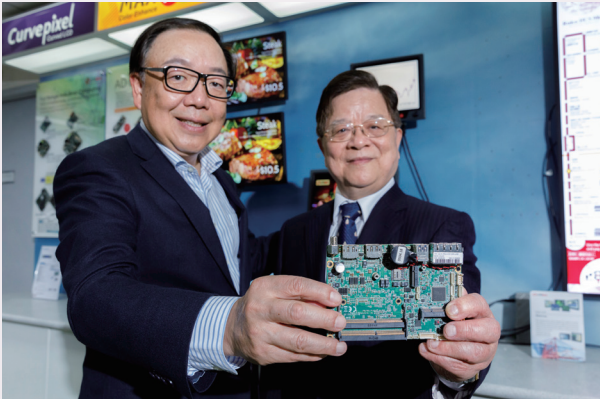
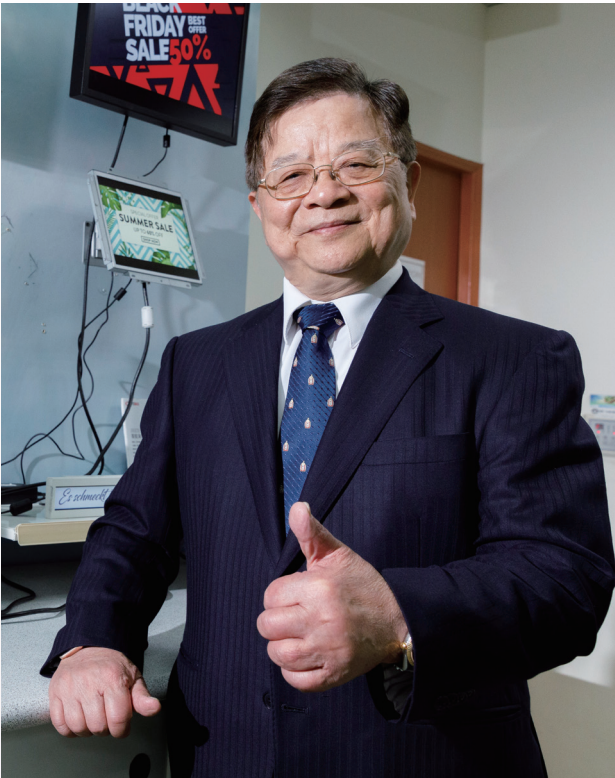
Innovation and capability are the absolute keys to success

Receiving the National Industrial Innovation Award is a tremendous honor. For Litemax, this has been a journey of endurance—from the initial selection process to the final round. Each stage required unwavering determination, ongoing brainstorming, and the submission of proposals. This process has undoubtedly yielded a bountiful harvest.

In both the present and the future, Litemax remain steadfast in upholding robust capabilities. The relentless pursuit of our goals, even amid the challenges, is to serve as the lifeblood of our existence. Litemax is committed to continuously channeling creativity to captivate the world!

Recently, the broader landscape has undergone significant transformations. Litemax has taken proactive steps in driving digital transformation, establishing AIoT digital platforms, venturing into B2B e-commerce, and embracing the concept of smart factories to build a global digital operational framework. Furthermore, in alignment with the global movement towards achieving net-zero carbon emissions, we have introduced the highly acclaimed ECOgreenpixel series.

Our mission is to make smart manufacturing a reality, expand operations globally, establish a foundation for sustainable development, and achieve the vision of becoming the enabler of a Smart Earth.



Key Features

Litemax Electronics is a global powerhouse in special-sized panels, wielding the key technology of high-brightness industrial sunlight-readable displays that reach 1,000 nits or higher and complemented by a diverse array of solutions. Leveraging panel-cutting technology, customization capabilities, and industrial computing systems, Litemax has set new standards for industrial-grade displays, digital signage applications, and embedded computing. Marketed in over 60 countries worldwide, Litemax has mastered high-difficulty key technologies, including high brightness and irregular shape cutting. As a leader in the industry, the company excels in undertaking ODM projects across various applications and secured 77 patents. Litemax drives the industry chain with its innovative products, expanding the blue ocean market for special-purpose displays that supports the industries in transportation, industrial applications, and digital content. Notably, our key technology developments for smart trains application have earned a spot in the transportation sector, with plans to apply them to both indoor and outdoor mobile transit displays.

Business Philosophy

Innovation and capability are the absolute keys to success. Litemax Electronics (TAIEX: 4995) is renowned for our industrial display and various industrial solutions primarily crafted from LCD panels and LED lightboxes. Our core technologies encompass visibility under sunlight, a wide temperature range, high brightness, low power consumption, waterproofing, dust-proofing, and shock resistance. We will continually to make smart manufacturing a reality, expand operations globally, establish a foundation for sustainable development, and achieve the vision of becoming the enabler of a Smart Earth.

— I J Lee, Chairman —

Company Profile & Business Contact Information

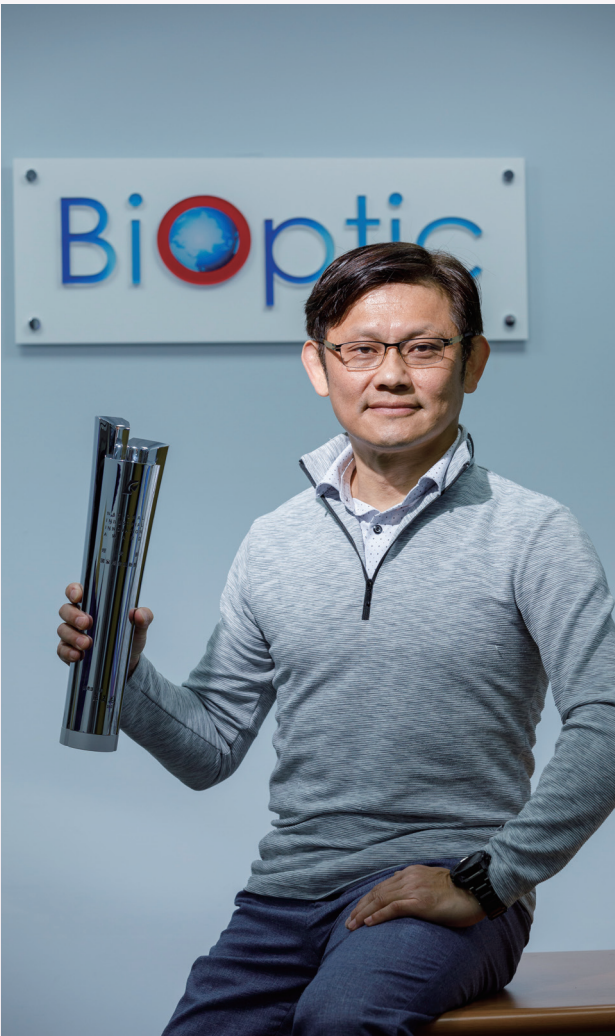
Core Business	industrial display & computing solutions
Chairman of the board	I J LEE
Address	8F., No.137, Ln. 235, Baoqiao Rd.,Xindian Dist.,New Taipei City 231,Taiwan
Tel	886-2-8919-1858
Fax	886-2-8919-1300
Website	https://www.litemax.com/tw/

Awards Acceptance Statement

We express our deep gratitude for the recognition granted by the National Industrial Innovation Award from the Ministry of Economic Affairs and the esteemed judging panel!

From its inception, BiOptic has staunchly adhered to the principles of innovation and reform, developing a range of innovative testing and analysis platforms. Our sustained efforts in global distribution and brand promotion have, over time, earned us increasing recognition in the capillary electrophoresis market. Leveraging the strengths of our open platform, we continue to compete and excel in the realms of biotechnology research, genetic testing, and clinical diagnosis, alongside major European and American companies.

BiOptic's ultimate goal is to harness our proficiency in genomics and proteomics and the synergistic efforts of our R&D teams in instrument and biochemical research to break through the bottlenecks in biotechnology. We aim to streamline the intricate process of genetic testing, making it accessible to all people. Additionally, we plan to broaden its application to sectors like agriculture, forestry, fisheries, and animal husbandry, to improve the quality of life and well-being of people across the globe.



Key Features

BiOptic is a biotechnology firm that specializes in scientific research, genetic testing, and clinical trials. Its global presence is driven by its innovative products, including the Qsep capillary electrophoresis testing series. It collaborates with over 40 global distributors, marketing in over 50 countries, and enjoys a 23% global market share, holding competitive advantages domestically and internationally. The company offers an array of products, including mobile genetic testing kits, portable capillary electrophoresis instruments, and mini PCR machines, enabling customers to conduct their own testing and monitor various diseases. Its COVID-19 testing kit gained international recognition. Boasting two R&D teams, BiOptic focuses not only on developing innovative products but also pursuing cross-industry integration to advance the development of its associated industry chains.

Business Philosophy

At BiOptic, we stay true to our principles of innovation and reform. We provide global users with comprehensive product and service solutions built on our capillary electrophoresis technology.

— Eric Tsai, President —

Company Profile & Business Contact Information

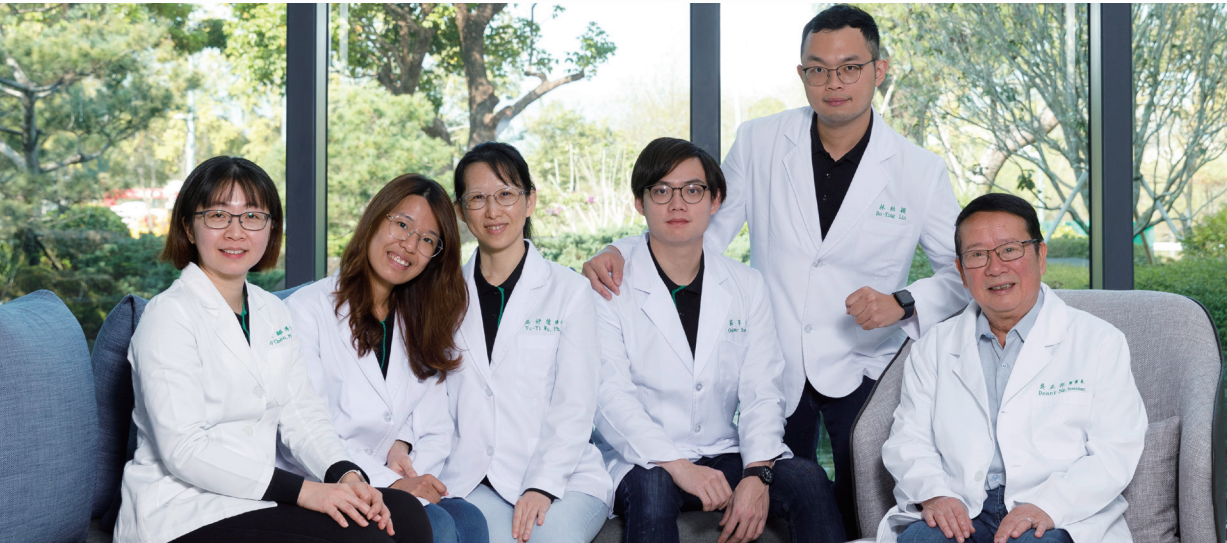
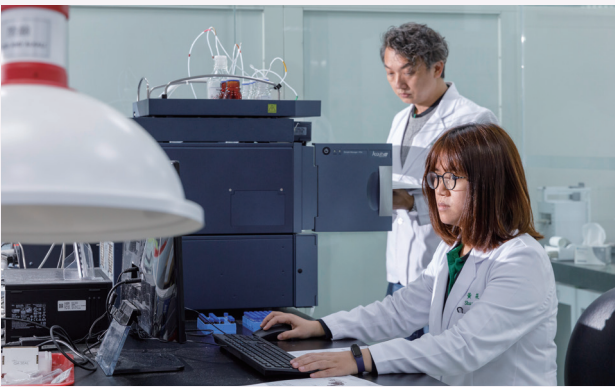
Core Business	Qsep Series Bio-Fragment Analyzer, Qampmini Tthermal Cycler, Qexp Series Detection Kit
Chairman of the board	Eric Tsai
Address	5F., No.108, Minquan Rd., Xindian Dist., New Taipei City 23141, Taiwan (R.O.C)
Tel	886-2-2218-8726
Fax	886-2-2218-8727
Website	www.bioptic.com.tw



Awards Acceptance Statement

We are immensely thankful for the acknowledgment from the Ministry of Economic Affairs and the judging panel. Receiving the Outstanding Enterprise Innovation Award in the National Industrial Innovation Award is an honor of great significance, and it serves as the most substantial encouragement for the CH Biotech R&D team.

As CH Biotech R&D marks its tenth anniversary, we remain dedicated to creating agricultural biotech products that are beneficial for both crops and the environment. Our goal is to boost agricultural yield and enhance product quality and flavor, while simultaneously prioritizing food safety and environmental conservation. We strive to advance Taiwan's agricultural biotechnology industry and seize opportunities in global food security, climate resilience, low-carbon sustainability, and high-quality production. Our innovative technological capabilities have led to the creation of world-class agricultural biotechnology pharmaceutical products, elevating our presence on the international stage. Our company is steadfast in enhancing technological innovation to contribute to global agricultural advancement. We endeavor to offer customers more competitive products, support farmers in producing safe, high-quality food, and ensure public access to food that is both safe and of high quality. We are fully dedicated to realizing our corporate vision and pursuing sustainable operations.



Key Features

CH Biotech is a world-class agricultural biotechnology R&D company developing new agri-pharmaceuticals that meet the trends of climate change and carbon reduction. It develops highly-efficient, precise, and low-carbon plant growth regulators and fertilizer products that align with modern agricultural production needs. It has secured 13 plant growth regulator technical material registrations from the U.S. Environmental Protection Agency, ranking among the top three in the US market. In the past three years, it has actively invested in R&D and innovation, obtaining 18 product registration certificates. It is now the exclusive supplier of choline chloride protoforms to the US EPA. In 2018, it invested NT\$2 billion (~UD\$63 million) to establish its new corporate headquarters and a world-class R&D center, creating Taiwan's most comprehensive plant research center. Adhering to environmental sustainability and fulfilling global citizen responsibilities, it is promoting a new agriculture and circular economy policy to reduce crop production carbon emissions. It has partnered with National Chung Hsing University in establishing the Academy of Circular Economy to provide an industry incubation platform for Taiwan's academia.

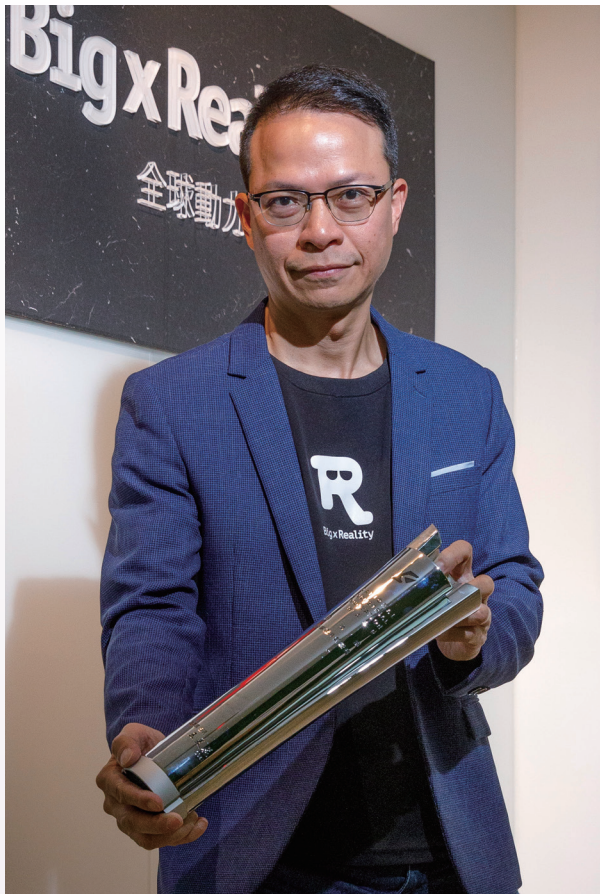
Business Philosophy

CH Biotech commits to a sustainable strategy that is friendly to the environment and promotes energy-saving and clean emissions. We persist in developing efficient, precise, and low-carbon biotech agri-pharmaceuticals to meet the demands of today's agricultural market.

— Cheng-Pang Wu, Chairman —

Company Profile & Business Contact Information

Core Business	Research, development, production, and sales of new agriculture chemicals and biotechnology.
Chairman of the board	Cheng-Pang Wu
Address	No. 89, Wenxian Rd., Nantou City, Nantou County 540001, Taiwan (R.O.C.)
Tel	886-49-700-9198
Fax	886-49-237-1717
Website	www.chbio.com.tw



Key Features

Global Power Technologies (Big x Reality) leads as a one-stop large system integration service provider dedicated to innovative XR simulation training for industries such as military, law enforcement, smart transportation, occupational safety and disaster prevention. Big x Reality as the first and well-known Taiwanese brand of smart XR military, law enforcement, and firefighting metaverse provider has secured the nation's first police simulation training project and the first military XR simulation training project. By combining big data with XR technology, it offers tailored simulation training solutions to meet client needs. The company has signed an MOU with Malaysia's XRA and plans to expand its business market and network to other Aisa and South Asia market.

Business Philosophy

Think Big! Rethink Reality!

— Hanson Chen, General Manager —

Company Profile & Business Contact Information

Core Business	*One-stop large scale system integration (via AR, VR, MR, XR platform) provider *Law enforcement & military simulation training system provider
Chairman of the board	Hanson Chen
Address	7F.-2, No. 20, Sec. 3, Bade Rd., Songshan Dist., Taipei City 105608, Taiwan (R.O.C.)
Tel	886-2-8791-6811
Fax	886-2-8791-6816
Website	www.bigxreality.com

Awards Acceptance Statement

We focus on developing smart city metaverse and its XR applications, specifically targeting virtual and real integration simulation training for military, law enforcement, and firefighting personnel. Utilizing advanced XR technology, AI algorithms, varied NPC development, user experience research, and data analysis insights to minimize casualties among frontline workers is our goal. Striving towards zero casualties is our unwavering commitment. Additionally, we hold the utmost respect for frontline heroes serving on the military, police, and relevant industries.

Thanks for the outstanding work of our research and operations teams, which enabled us to increase our investment last year and establish Taiwan's largest Serious Game metaverse research center. We aim collaborate with exceptional partners across different sectors of the metaverse ecosystem in Taiwan to enhance product experience services. We aspire to extend these advancements internationally, bringing benefits to duty-bound heroes worldwide. Together, we believe Taiwan would soon be a leading hub in the field of metaverse development!

Lastly, this award serves as a testament that government do recognize and willing to support the metaverse industry. We would like to extend our heartfelt thanks and gratitude to the government, members of officials, judging panel and all the staffs for their dedications and hard works.



Key Features

We aspire to utilize technology for the care of infants and toddlers. Our CuboAi Smart Baby Monitor combines AI and big data to help new parents monitor their babies around the clock through automatic AI recognition and deep learning. Our subscription-based service stores all monitoring data on the cloud for parents to access. Originating from the Zeczec crowdfunding platform, we have expanded to international markets in Europe and the US, establishing a global brand presence in 11 countries. With an outstanding sales performance and being the recipient of 15 international awards, we are dedicated to developing a Total Baby Ecosystem for all stages of parenting. Backed by a strong tech background and abundant baby audiovisual data, we collaborate with pediatric experts to create baby care products and services, capitalizing on Taiwan's advantages and resources to build a global brand.

Business Philosophy

Parental needs inspire our products. Tapping into innovative technology and AI, as well as collaborating with experts from various fields, we aim to create a complete parenting ecosystem to assist parents around the world in safeguarding the well-being and safety of their babies, so they can grow up and thrive.

— Thomas Tseng, Chairman —

Awards Acceptance Statement

We deeply appreciate the recognition Yun Yun AI Baby Camera has received from the Ministry of Economic Affairs and the judging panel. In our six-year entrepreneurial journey, we've harnessed Taiwan's exceptional high-tech talent and resources, rigorously evolving our products from inception to realization, and subsequently expanding into the global market. These remarkable accomplishments reflect the dedicated efforts of each member of our team. With our industry-leading AI research and development expertise, and by implementing innovative digital operations and marketing strategies, we have successfully positioned CuboAi as the world's top brand in baby tech.

We also express our profound appreciation to the unsung supporters who have helped Yun Yun AI Baby Camera pioneer new business models post-pandemic and contributed to our successful entry into the international market. This includes our investors who have continuously supported and believed in us, such as TOP TAIWAN chairman Andy Chiu, Nutek President Charles Chen, the Industrial Development Bureau of the MOEA, the National Development Fund, and partners like First Bank, Mega International Commercial Bank, Chicony, and the Industrial Technology Research Institute. Our gratitude also goes out to our benefactors and mentors for their invaluable guidance and support throughout our journey.

Lastly, we hope that this award can showcase CuboAi's innovative business model, and inspire more Taiwanese startups to establish and grow their brands and expand globally. We are also eager for future cross-industry collaborations within the parenting tech sector. Together, representing Taiwan, we aim to make our mark on the global stage.

Company Profile & Business Contact Information

Core Business	Available on CuboAi's official website and Amazon platforms across 11 countries - CuboAi Smart Baby Monitor - CuboAi Sleep Sensor Pad - CuboAi Smart Temp
Chairman of the board	Thomas Tseng
Address	19F.-4, No. 2, Ln. 150, Sec. 5, Xinyi Rd., Xinyi Dist., Taipei City 11059, Taiwan (R.O.C.)
Tel	886-2-2722-8392
Website	www.cuboi.com



Awards Acceptance Statement

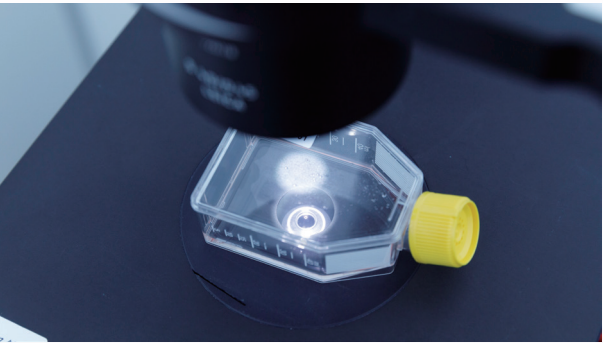
Cell therapy represents a groundbreaking approach to clinical treatment and is also a burgeoning industry in Taiwan.

At Ever Supreme, we adopt the novel Medical School-Biotech Company-Hospital collaborative model, leveraging the technical innovation of our research team to transform R&D successes into cell therapies suitable for clinical applications.

The government's promulgation of the Regulations Governing Special Medical Techniques in September 2018 marked a significant opportunity for both Taiwan's biotech industry and its patients. Ever Supreme stands at the forefront of cell therapy in Taiwan, thanks to our extensive equipment, expertise, and technology capabilities. We lead in terms of total approved cases, diversity of product offerings, collaborative hospitals, and the number of patients served under the aforementioned Regulations. Our achievements have also catalyzed the growth of Taiwan's up-, mid-, and downstream industries in the cell therapy sector.

We extend our sincere thanks to the Ministry of Economic Affairs for organizing this award. Our company is deeply honored to be the recipient of

the prestigious Outstanding Enterprise Innovation Award in the Startup category. Looking ahead, we set our sights on the global stage, as we continue to develop and promote new drug cell therapy products worldwide. Through these efforts, we aim to allow the world to see Taiwan through Ever Supreme.



Key Features

Founded in 2016, Ever Supreme focuses on the cell therapy market and unmet medical needs. It specializes in the R&D of immunotherapy and stem cell new drugs and is the first over-the-counter company in Taiwan with cell therapy as its primary business. Ever Supreme's remarkable performance in innovative features and value creation is well recognized. By investing in R&D and working with academia, it has been certified by the Ministry of Health and Welfare as a qualified GTP cell preparation site, establishing a leading position in Taiwan's cell therapy. It further drives the up-, mid-, and downstream industry chains of cell therapy, supporting 16 medical institutions to provide patients with effective and safe treatments through special medical techniques. Simultaneously, it stimulates new business opportunities in the related industry chains and promotes the industry's overall growth.

Ever Supreme's next generation treatment (CAR001) uses health donor cells, rather than those of the patient, and so can be made available sooner and to more patients. This reduces the chances of cancer patients missing treatment opportunities due to the lengthy manufacturing process. To overcome the difficulties associated with treating solid tumors, CAR001 utilizes messenger RNA (mRNA) modified multi-targeted nanobody cell therapy and targets human leukocyte antigen G (HLA-G).CAR001 has demonstrated efficacy in preclinical animal studies.

CAR001 received approval for phase I/IIa clinical trials from US FDA in Q3 2023, this marks a pivotal milestone in regenerative medicine.

Business Philosophy

It's an immense honor to receive this recognition because it's a testament to the relentless efforts of our team. We will continue to work hard towards our mission, dedicating ourselves to promoting the R&D and application of immunotherapy and stem cell medicines, letting the world see Taiwan through Ever Supreme.

— Chu-Chi Liu, Chairman —

Company Profile & Business Contact Information

Core Business	Immune cell products and stem cell products
Chairman of the board	Chu-Chi Liu
Address	4F., No.30, Keya Rd., Daya Dist. Taichung City, Taiwan (R.O.C.)
Tel	886-4-2325-2888
Fax	886-4-2325-8666
Website	https://www.ever-supreme.com.tw/



Awards Acceptance Statement

For the past eight years, MacroMicro has dedicated itself to highlighting the significance of macroeconomics, aiming to harness the power of data to provide everyone with the chance to grasp global trends and make informed investment decisions.

We are thrilled that our founding intentions, beliefs, and efforts have been acknowledged, culminating in receiving the National Industrial Innovation Award. We are committed to ongoing innovation, striving to bring positive changes and perspectives to the dynamic investment landscape. More importantly, we aim to infuse greater innovative energy into domestic industries, helping Taiwan shine even more brightly on the international stage.



Key Features

MacroMicro is Asia's first macroeconomic investment information platform. The company merges finance and technology to build its big data database, integrating millions of global data and transforming them into visual charts. It aims to offer the most dynamic economic observation station to help the public quickly get hold of economic trends and take hold of their investments in the shortest time possible. With innovation as its core, MacroMicro extends the influence of its "national economic education" initiative and has accumulated over 380,000 users to date. It generates 4.5 million chart views monthly and a total of 35.6 million platform views annually. Operating with a team of 20 people based in Taiwan but eyeing the global scene, it strives to fulfill its mission—**Empowering everyone to see global trends through data!**



Business Philosophy

MacroMicro is committed to delivering the importance of macroeconomics and continuously innovating to bring more good things and attitudes into this crazy investment environment.

— Chen, Chia-Ju (Rachel), CEO —

Company Profile & Business Contact Information

Core Business	Global Economic Trends Analysis and Data Platform: Offering subscription services, economic research reports, seminars, and online courses in macroeconomics
Chairman of the board	Chen, Chia-Ju (Rachel)
Address	5F., No. 159, Sec. 1, Keelung Road, Xinyi District, Taipei City, Taiwan (R.O.C.)
Tel	886-2-2763-9979
Website	https://www.macromicro.me/

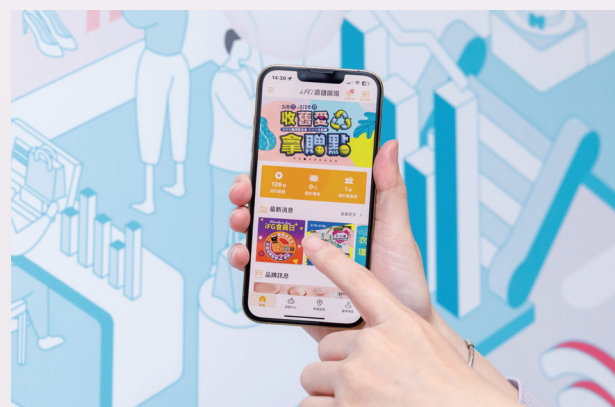
Awards Acceptance Statement

On behalf of Turn Cloud, I extend heartfelt thanks to the Ministry of Economic Affairs and all the judges for their recognition and support. I also want to express my gratitude to all the colleagues at Turn Cloud. We feel deeply honored to be the recipient of the National Industrial Innovation Award. It not only acknowledges the relentless efforts of Turn Cloud but also serves as a motivation for our continuous pursuit of innovation.

This award further inspires us to strive for excellence in innovation and to embed ESG deeply into the core of our ethos. Over the years, we have consistently upheld our core value of the "flying-geese team", driving innovation to develop a holistic omnichannel solution that seamlessly blends online and offline experiences for our customers. Our goal is to forge a novel retail experience that harmonizes the interactions between customers and businesses.

We deeply cherish this honor and remain committed to working diligently and innovating further, aiming to make even more significant contributions to the progress and development of industry, academia, and research. Simultaneously, we will collaborate with partners from various sectors to harness technology in creating a smarter lifestyle and collectively shape a brighter future for new retail!

Once more, we wish to extend our appreciation for the affirmation and support from the MOEA, as well as the ongoing support from our indispensable partners. Thank you everyone!



Key Features

Turn Cloud specializes in providing digital transformation solutions in smart city and smart retail industries. Its solution-oriented services enable omnichannel one-stop digital transformation offerings. By integrating AI, blockchain, cloud, and data science, a single AIoT devices is able to meet diverse scenarios to achieve cross-national, cross-industry, and real-time synchronization. With operations expanded to Japan, China, and Southeast Asia, it has a domestic market share exceeding 60% with overseas revenue accounting for over 30% of total revenue. Centering on consumer experience and a data-driven approach to enhance customer operations and service efficiency, it develops AIoT devices, SaaS applications, and cross-platform application frameworks for data platform interaction. It has established a complete online and offline OMO business ecosystem and is favored by international groups and chain retailers at home and abroad. Its system is now used in various large shopping malls.

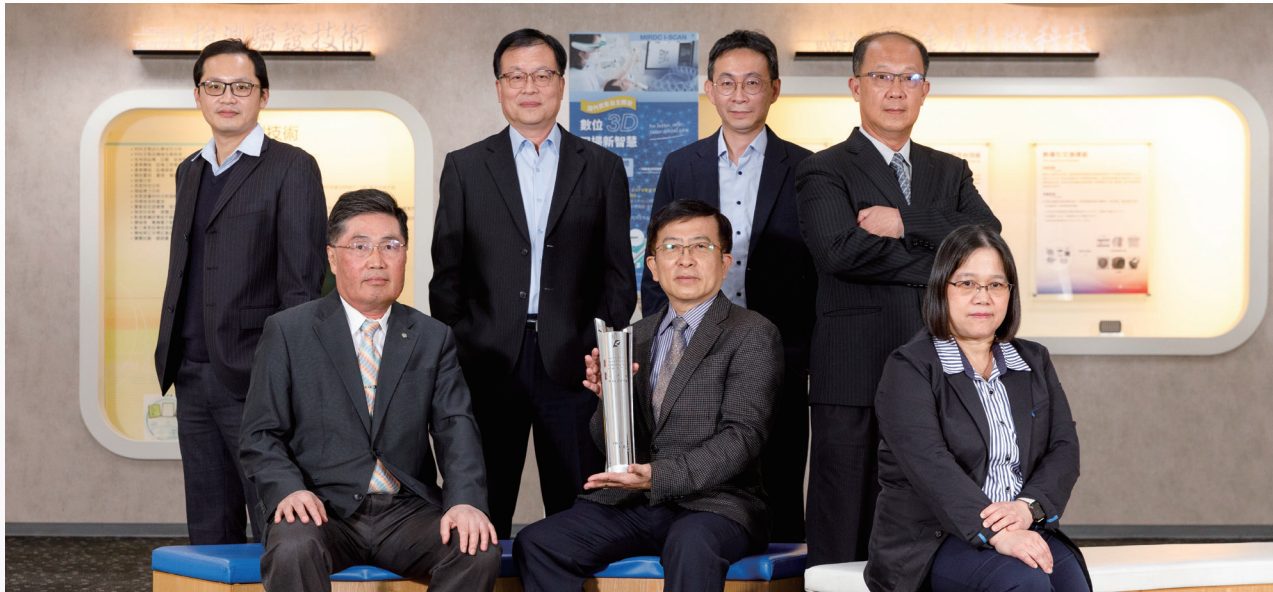
Business Philosophy

Turn Cloud values talent development, encourages colleagues to innovate and grow, and embraces diversity, equality, inclusiveness, and sustainability. We foster a cohesive team and a mutually beneficial culture, aiming to create innovative and sustainable development for ourselves and society!

— Vincent Liang, Chairman —

Company Profile & Business Contact Information

Core Business	Cloud-based digital transformation solutions incorporating Fintech , Retail Tech and Data Tech.
Chairman of the board	Vincent Liang
Address	11F-11, No. 99, Sec. 1, Xintai 5th Rd., Xizhi Dist., New Taipei City 221416, Taiwan (R.O.C.)
Tel	886-2-2697-3968
Fax	886-2-2697-3160
Website	www.turn2cloud.com

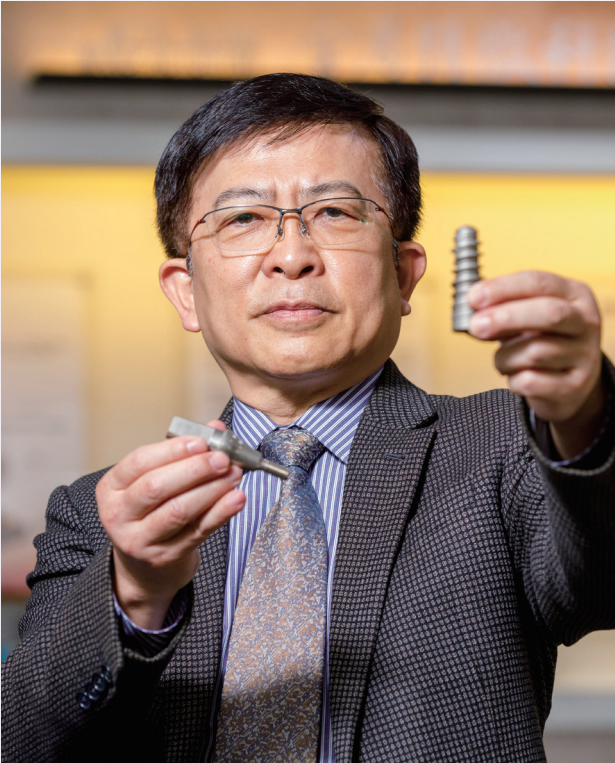


Awards Acceptance Statement

We extend our profound gratitude to the Minister of Economic Affairs for the sustained support of our technology projects. Receiving this award is a significant source of encouragement and validation for the Metal Centre! For six decades, we have paralleled the evolution of national industrial policies and landscape shifts. We have consistently supported traditional industries and small and medium-sized enterprises in their transformation and upgrades. In recent years, as emerging industries have flourished, the Centre has expanded its involvement in organizational operations, technology and product applications, industry-academia research collaborations, diversified marketing strategies, and international linkages. Delivering breakthroughs and fostering innovation, we are progressively branching into various sectors, from traditional metal processing to medical equipment, low-earth orbit satellites, semiconductor equipment, wind power, and circular materials. This expansion is aimed at driving industrial innovation and growth while facilitating connections with the international market.

Going forward, the Centre will align with national industrial policies like the 2050 net-zero emissions

target and the six core strategic initiatives. Our focus will be on aiding industries in boosting their growth momentum and resilience, expediting their transformation and upgrade to enhance long-term competitiveness, intended to solidify Taiwan's pivotal role in the global supply chain.



Key Features

The Metal Industries Research & Development Centre is tasked with assisting Taiwan's metal-related industries in their technical R&D endeavors. In recent years, it has continued to deepen its domestic R&D capabilities, actively collaborating with internationally renowned universities, research institutions, and companies. It has received 7 R&D 100 Awards, and its achievements have earned significant domestic and international recognition. The Centre has instituted 8 project offices to advance industry policies, carried out 58 independent international collaborations, and guided cluster development in 62 industrial zones. These efforts enhance the international competitiveness of local industries and help them overcome technological barriers. The Centre also advocates industrial investment in process development and key components. In the past three years, more than NT\$120 billion (~US\$ 3.6 b) of investment has been facilitated, leading to a production value increase of over NT\$180 billion (~US\$ 5.6 b). The Centre also focuses on cultivating a new generation of biomedical talents and actively promotes the development and guidance of net-zero carbon emission technology. It assisted manufacturers in setting up mask production lines during the pandemic, sparing no effort in solving social and public issues to become an indispensable force in the industry.

Business Philosophy

With innovation, sustainability, and globalization as our goals, the Centre strives to act as a crucial bridge between industry, academia, and research. We aim to drive industry innovation through critical R&D, honor our corporate social responsibility, and build a friendly workplace environment.

— Chih-Lung Lin, Acting CEO —

Company Profile & Business Contact Information

Core Business	MIRDC focuses on metals and related industries as the leading service objects and is engaged in the research and provides industrial research, training, patent analysis & deployment, inspection, and certification.
Chairman of the board	Lin, Ren-Yi
Address	No. 1001, Kaonan Highway, Nanzi Dist., Kaohsiung City 81160, Taiwan (R.O.C.)
Tel	886-7-351-3121#2130
Fax	886-7-351-3226
Website	http://www.mirdc.org.tw/



Awards Acceptance Statement

We are deeply grateful for the recognition from the Ministry of Economic Affairs and the esteemed judges. Receiving the National Industrial Innovation Award is a tremendous source of motivation for all our colleagues.

We have been steadfastly focused on research and application in the consumer service industries, positioning ourselves as providers of technological solutions. By comprehending the needs and challenges of businesses, we strive to develop high-value solutions. Our goal is to boost their capabilities in digital transformation within the industry, creating innovative profit models and smart services as catalysts for organizational growth.



Key Features

The Service Systems Technology Center is committed to promoting E2E system integration solutions for innovative technology applications that create industry value, drive startups, and foster emerging services. By harnessing the R&D capabilities of ITRI, it connects cross-disciplinary businesses to carry out operations and service models, fulfilling its role as a solution provider. The Center taps into its core value of cross-domain and cross-industry innovation to drive industry transformation, upgrade, and high-value development. It propels significant industry innovation and emerging business models in three domains: smart logistics and warehousing, smart healthcare, and cultural and sports technology. It promotes the circular use of e-commerce packaging materials and green transportation platforms for logistics warehousing, effectively reducing carbon emissions. The Center enhances the collaborative industry-academia-research R&D innovation, working with dozens of international industry-academia institutions to lead the way into the international market. It has validated solutions with multiple educational and medical institutions to pioneer remote medical services for chronic wounds and AI-powered intelligent insurance claims service. Meanwhile, its development of Taiwan's first domestically produced high-resolution simulation program opens up new business opportunities in the sports technology industry in Taiwan!

Business Philosophy

At the Service Systems Technology Center, we are dedicated to being a Solution Hub. Our focus is on deeply understanding the needs and challenges within the industry. Collaborating closely with companies, we strive to develop high-value solutions that facilitate transformation and innovation, leading the way in creating new value in the service industry.

— Roger Cheng, General Director —

Company Profile & Business Contact Information

Core Business	The technical research and industrial applications of intelligent logistics warehousing and supply chain, intelligent healthcare and cultural/sports technology.
General Director	Roger Cheng
Address	195, Sec. 4, Chung Hsing Rd., Chutung, Hsinchu, Taiwan 310401, R.O.C.
Tel	886-3-591-2120
Website	https://www.itri.org.tw/

Team Category

Innovative Trailblazer Team Award

Metal Industries Research & Development Centre Heat Treatment System Team Continuous Heat Treatment System Equipment for Micro Components	58
Taiwan Semiconductor Manufacturing Company N2 Platform Technology 5nm & 4nm Development and Deliverable - The Most Advanced Semiconductor Technologies Worldwide !	60
MediaTek Inc. Wi-Fi Project Team MediaTek's next-generation WLAN: Leading international standard to drive industry upgrade	62
BenQ Materials Corp. Visioncare Division New-generation silicone hydrogel	64

Innovative Trailblazer Team Award

Metal Industries Research & Development Centre The Team of Intelligent Orthopedic Surgery Assistance System Development of key technologies for intelligent orthopedic surgery assistance system	66
Cathay Life Insurance Co., Ltd. Cathay Vision Experience Cathay Vision Experience (CVX)	68
Regional Innovation Contribution Award Hong Qiao Environment-Technology Engineering Inc. The Team of Food Waste Recycling and Reuse By With Technology. Food waste recycling and reuse	70



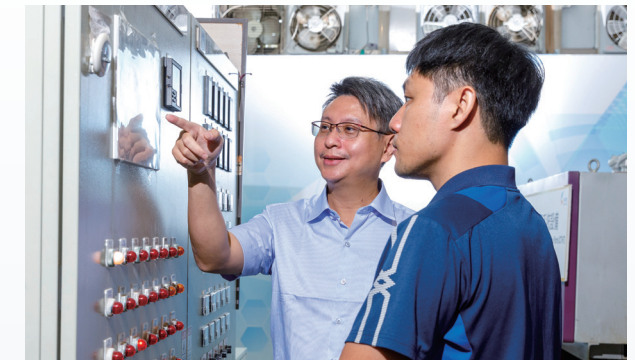
Team



Awards Acceptance Statement

Receiving this award is an affirmation of our team members' dedication. We have actively engaged with domestic industries and manufacturers to thoroughly understand the industry's current state and pain points. By integrating expertise from various fields, we have been helping industries address challenges, leading to product innovation, value-added applications, and significant industry upgrades.

Developing and innovating technology is difficult, but creating innovative technology that industries can utilize presents an even bigger challenge. Our team understands that this is not a feat for one individual alone. It requires the collective efforts of the entire team to effectively contribute to the domestic industry. We value the team's commitment to executing the project and are grateful for the recognition from the judging panel. Moving forward, our team will persist in enhancing and expanding our core technology to make meaningful contributions across industries.



Key Features

Continuous Heat Treatment System Equipment for Micro Components

The Metal Centre has developed the Continuous Heat Treatment System Equipment for Micro Components, with innovative features such as vibration feeding, uniform furnace gas control, and microcomponent collection. The quality of the processed components surpasses existing large-scale continuous processing furnaces or small-batch furnaces. It has won multiple awards, including the 2021 R&D 100 Award and the 2021 Edison Awards, establishing itself as a leader among international peers. This offering promotes the domestication of heat treatment equipment for precision metal components and integrates equipment, information visualization, and terminal applications, uniting industry players and academic institutions to form the Precision Heat Treatment Smart Equipment Industry Alliance, which aims to construct a domestic supply chain for precision heat treatment equipment. It has assisted SHA YANG YE and Taiwan Mabuchi in enhancing their product's added value and helped C.C.P Contact Probes to improve the service life of its precision probes. These efforts have facilitated NT\$ 100 million (~US\$ 3.13 m) in investments and generated associated production value of more than NT\$ 500 million (~US\$ 15.7 m) in high-value high-precision components, contributing to the digital transformation of smart factories in Taiwan.

Business Philosophy

Let's work hard together, accomplish our mission, and always remember our roots.

We create brilliance through technology and generate prosperity for our team.

— Team Leader: Chia-Hung Huang, Deputy Supervisor —

Company Profile & Business Contact Information

Organization	Heat Treatment Systems Team/Metal Industries Research & Development Centre
Team Leader	Chia-Hung, Huang
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Tel	886-7-351-3121
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Website	https://www.mirdc.org.tw



Awards Acceptance Statement

Achieving the breakthrough in developing the world's most advanced 5nm and 4nm semiconductor manufacturing process technology is not an overnight success, nor is it the work of just a few individuals or groups alone. I would like to express my genuine gratitude to the entire TSMC R&D team for their years of relentless effort and selfless commitment. I am also thankful for the support from the families and loved ones of each team member. Most importantly, I am appreciative of the company's exceptional management and authority granted to us, enabling world-class operations and financial management. Together with our customers and supply chain partners, we have accomplished this challenging mission. The development of 5nm and 4nm technologies has not only generated significant economic benefits for Taiwan over the past two years but will also mark a milestone as we bring them to production in the United States in 2025. I can proudly say that this represents the greatest source of encouragement for our team. Thank you all for your acknowledgment and support!



Key Features

5nm & 4nm Development and Deliverable - The Most Advanced Semiconductor Technologies Worldwide!

Taiwan Semiconductor Manufacturing Company (TSMC) boasts extensive experience in advanced process development, successfully completing the R&D of 5nm and 4nm processes, and launching them for mass production. This provides global customers with the world's leading wafer production processes and technical services. The transistor density has increased by 1.8 times, speed by 15%, and power consumption decreased by 30% compared to their predecessors. In 2023, high-performance computing N4X and automotive electronic exclusive N5A chips have gone into mass production. The team also promotes the Energy Conservation Action Project for Next-generation Fab Tools, applying energy-saving technology to the advanced 5nm process machines. The TSMC S.T.S.P. (Southern Taiwan Science Park) Reclaimed Water Plant was launched for its 5nm production facility to enhance environmental sustainability. As the most advanced chip R&D team in the world, it has effectively prolonged Moore's Law. The new value created since mass production has surpassed NT\$ 600 billion (~US\$ 18.7 b), and it has greatly driven local investment in the supply chain. Active research into the 2nm process is also underway as it continues to advance the progress of semiconductor technology in Taiwan and around the world.

Business Philosophy

Optimism is a competitive advantage.

— Team Leader: Geoffrey Yeap, Vice President —

Company Profile & Business Contact Information

Organization	N2 Platform Technology/Taiwan Semiconductor Manufacturing Company
Team Leader	Geoffrey Yeap
Address	8, Li-Hsin Rd. 6, Hsinchu Science Park, Hsinchu 300-096, Taiwan, R.O.C.
Tel	886-3-563-6688
Fax	886-3-563-7000
Website	https://www.tsmc.com/english



Awards Acceptance Statement

We express our sincere gratitude to the Ministry of Economic Affairs and the judging panel for this distinguished honor, a gesture that reinforces our dedication to excellence. With over twenty years in IC design, R&D, and marketing, we understand that our collective efforts are the bedrock of our success. In the face of global competition, a focus on patent enhancement and international growth is imperative to value creation. We are dedicated to collaborating within the ecosystem to advance Taiwan's wireless LAN industry and elevate Taiwanese brands on the world stage. Adhering to the belief that "speed determines the winner," we are poised to lead advancements in wireless communication and to penetrate international markets, thereby creating new "blue ocean" opportunities and delivering unmatched value for Taiwan.



Key Features

MediaTek's next-generation WLAN: Leading international standard to drive industry upgrade

MediaTek's team has launched a new generation of wireless network technology, laying the foundation for next-gen Wi-Fi 7 ahead of competitors. Over the past four years, the team has filed 180 related international patents. It's been the first to adopt the 6nm process, leading the industry with a 50% reduction in power consumption. Their test has shown the world's fastest Wi-Fi 7 technology with the longest range, surpassing industry average by 30% in addition to another wireless LAN features a latency response that is 100 times lower than industry peers. The team is an active participant in Wi-Fi international certification standards, advocating its narrative in specification formulation. They also contribute to create new value for up and downstream manufacturers in Taiwan wireless LAN industry. It is estimated that over the period of six years from 2024 to 2029, Wi-Fi 7 technology will create a production value of NT\$240 billion (~US\$ 7.5 b) for Taiwan's wireless LAN supply chain, NT\$160 billion (~US\$ 5 b) for key components, NT\$370 billion (~US\$ 11.5 b) for terminal products, at a total global value of NT\$770 billion (~US\$ 24 b). It's expected to create 37,500 jobs in Taiwan and become a driving force to further advance Taiwan's wireless communication industry.

Business Philosophy

Wi-Fi is the driving force of connectivity. To maintain technological leadership and shape international standards and ecosystem development, we must champion innovative thinking, courageously venture beyond conventional boundaries, and constantly pursue superior methodologies.

- Team Leader: SM Lee, Intelligent Connectivity BU Deputy General Manager

Company Profile & Business Contact Information

Organization	Wi-Fi Project Team/MediaTek Inc.
Team Leader	SM Lee
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Tel	886-3-567-0766
Website	www.mediatek.com

Awards Acceptance Statement

We express our sincere gratitude to the judges for recognizing the contributions of BenQ Materials. This recognition enables us to transform the often invisible power of these materials into a dynamic force that accelerates innovation and upgrades within the industry. We also wish to extend our heartfelt thanks to our team members, whose mutual support and growth have been pivotal in empowering us to navigate and overcome obstacles that once seemed insurmountable.

"Seeking novelty and change to co-create value" has been deeply embedded in our company culture, influencing the actions and mindsets of our employees for years. We aspire to bring about creative and boundless transformations in materials through our expertise in material science and innovative applications. The path to developing the new-gen silicone hydrogel has been filled with formidable challenges. Our goal is to go beyond the achievements of our distinguished predecessors, using material science and innovation to offer users the most exceptional experience. During this journey, we have consistently enhanced our expertise and stayed current by integrating ESG considerations. Our commitment is to propel the high-value transformation of Taiwan's materials, using silicone hydrogels to augment the technological advantages of Taiwan's contact lens industry. We aim to lead by example in caring for the Earth and achieving sustainability.



Key Features

■ New-generation silicone hydrogel

BenQ Materials is one of the few domestic contact lens manufacturers capable of independently developing upstream materials. Combining its expertise in material science with sustainable development principles, the company develops high-quality products that meet modern consumer needs, while constantly improving on its ESG journey. The new-generation silica hydrogel material developed by the team boasts a production value of NT\$ 9.1 billion (~US\$ 285 m). Having expanded its silica hydrogel market presence in Taiwan to 12%, it is actively venturing into major global markets and countries. The team has launched its own brand and secured key patented technologies, with a total of 111 patent applications globally. Leveraging its EutraSil® Plus hydrophilic silicone technology, the team has developed a new generation of high-oxygen permeable silicone hydrogel contact lenses. Not only does it significantly increase the oxygen permeability of the lenses, but the unique solvent-free formula also ensures the lenses are non-irritating and non-allergic. These eco-friendly lenses meet the consumer demand for long-lasting comfort. In addition, the team practices the concept of a circular economy by establishing an integrated plan for green design, production, recycling, and living, sparing no effort to promote environmental sustainability.



Business Philosophy

From materials to ESG, BenQ Materials manifests its green DNA through green design, production, recycling, and living to realize its ESG vision for silicone hydrogel materials.

— Team Leader: Z.C. Chen, CEO —

Company Profile & Business Contact Information

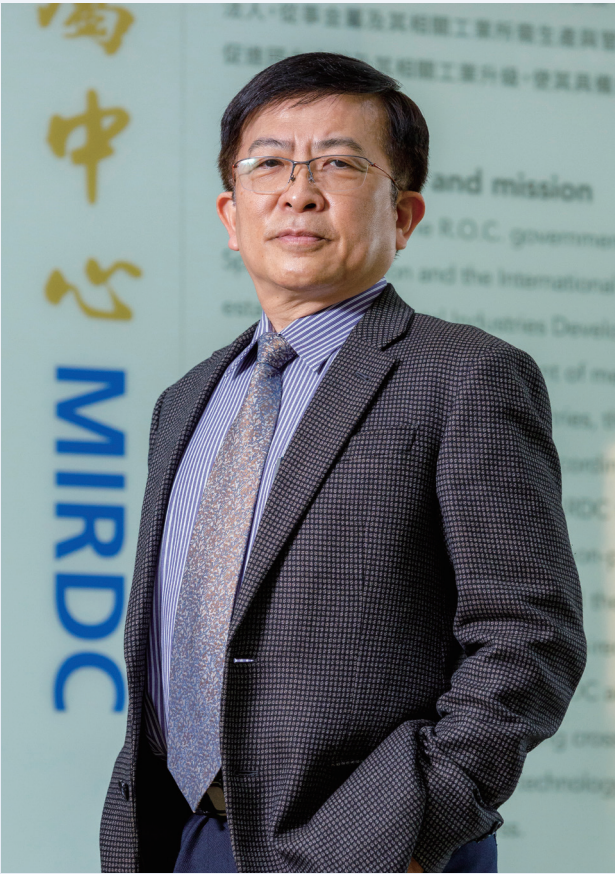
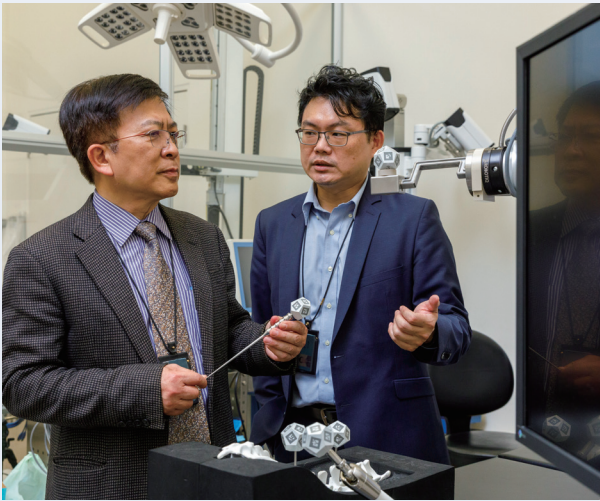
Organization	Visioncare Division/BenQ Materials Corp.
Team Leader	Z.C. Chen
Address	29, Jianguo E. Rd., Guishan, Taoyuan 333403, Taiwan
Tel	886-3-374-8800
Fax	886-3-361-9900
Website	www.benqmaterials.com

Metal Industries Research & Development Centre

The Team of Intelligent Orthopedic Surgery Assistance System

Awards Acceptance Statement

I am Lin Chih-Lung, the Acting CEO of the Metal Centre. I extend my sincere thanks to the Ministry of Economic Affairs' Department of Industrial Technology and academic research entities for their support. The Centre has committed over a decade to innovative R&D in medical materials to address clinical needs. We have established comprehensive process technology for small dental implants, developed and promoted digital holistic oral systems, and made strides in orthopedics and medical electronics. Our outstanding team, based in southern Taiwan, has evolved from "me too" to "me better" and now to "de novo", positioning ourselves as the premier partner for Taiwan's acclaimed clinical medical community and addressing the clinical needs in healthcare. This innovative product is a global first, capable of providing real-time dynamic virtual images during surgical procedures. As an intelligent orthopedic surgery assistance system with navigation capabilities, it significantly boosts the adoption of minimally invasive spinal surgery in clinical settings. This technology is poised to be an invaluable aid to medical practitioners. Our R&D team deeply appreciates the acknowledgment from the judging panel. This award not only honors our team but also reassures us of the government's ongoing support. With this encouragement, the vision of Taiwan's medical device technology gaining global traction is well within reach!



Key Features

Development of key technologies for intelligent orthopedic surgery assistance system

The MIRDc's intelligent orthopedic surgery assistance system team has created the world's first Multi-Vertebrae Real-Time Positioning Surgery Aid System. It combines an intelligent surgical assistance robot, using a new positioning technology that can reduce the size of positioning markers by 70%. It can be applied to spinal surgeries involving three or more vertebrae, saving 25% of surgery time for screw placement. In the face of healthcare personnel shortage, the use of surgical assistance systems can shorten the learning curve for surgeons and mitigate the risk of surgical errors. In the past 3 years, the team has achieved 21 technology transfers, acquired 27 domestic and international patents, and won two international awards. Collaborating with renowned hospitals and the orthopedic implant industry in Taiwan, it jointly promotes the development of smart orthopedics and adds value to peripheral medical devices. At the same time, it has facilitated investments from five industry players, totaling NT\$ 452 million (~US\$ 14 m), in the development of software and hardware products, such as smart surgery recognition, surgical robots, and peripheral medical products. These contributions help drive the growth of the smart healthcare industry.



Business Philosophy

Breaking free from the technical mold, we harness innovative technology to shift from being a follower to a leader in the medical device industry. We empower Taiwan's medical device R&D to showcase her outstanding achievements in the field of medicine!

— Team Leader: Jhih-Long Lin, Acting CEO —

Company Profile & Business Contact Information

Organization	The Team of Intelligent Orthopedic Surgery Assistance System/Metal Industries Research & Development Centre
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Tel	886-7-351-3121
Fax	886-7-351-6528
Website	www.mirdc.org.tw



Awards Acceptance Statement

Reflecting on the past few years, it's clear that COVID-19 has had an unprecedented impact on the insurance industry. We are extremely grateful to the Financial Supervisory Commission for their rapid response to the changing environment by introducing the Interim Measures for Life Insurance Industry's Response to the COVID-19 Pandemic Involving Face-to-Face Meetings and Paper-based Processes. This initiative has enabled the transition from the previously mandatory in-person signing and meeting concerning insurance policies to be conducted via remote video calls.

This award goes to our team's collective effort. Despite working from home due to COVID measures, they efficiently communicated and collaborated through video conferences. Remarkably, within just 20 days, they completed the iterative development of our new platform, which successfully passed its trial run. This achievement showcases Cathay Life Insurance's robust capabilities in digital transformation. Our team swiftly constructed the industry's unique one-stop platform, covering everything from insurance applications and policy changes to claims processing. It allows people to enjoy the convenience of remote Three Zeros service (Zero Contact, Zero Paper, Zero Data Storage in Endpoints), a significant stride in customer experience.

With the pandemic subsiding, Cathay Life Insurance has transitioned the CVX platform into a standard service channel. We look forward to the broader societal benefits that CVX can bring. Our aim goes beyond merely creating value and setting benchmarks; we aspire to lead the industry and continue to exert a positive influence on society.



Key Features

■ Cathay Vision Experience (CVX)

Cathay Life Insurance's CVX team offers a comprehensive remote insurance Total Solution platform. It integrates its proprietary e-signature technology and includes features like online insurance purchases, policy changes, policy loans, claim applications, and premium services. The CVX platform has processed over 90,000 insurance policies and contributes to about 60% market share of remote insurance sales in Taiwan. In 2021, Cathay Life was the first insurance company to apply for and pass the remote insurance pilot scheme. This prompted the other insurance companies to apply for their pilot run. CVX has rallied the life insurance industry players to make remote services a new norm, writing a new chapter for the industry. The new remote service model has proven to be a tremendous success, achieving 92% satisfaction from agents and 95% satisfaction from customers. This remote service not only reduces commuting pollution but also brings forth the impact of going paperless to reduce nearly 90 tons of carbon emissions, making it an exemplar for promoting ESG in the insurance industry.

Business Philosophy

Cathay Vision Experience (CVX) represents Cathay Life Insurance's daring innovation and courageous steps towards higher and better value. Amidst the pandemic, we have demonstrated resilience and led the industry to overcome obstacles.

— Team Leader: Andrew Liu, President —

Company Profile & Business Contact Information

Organization	Cathay Vision Experience/Cathay Life Insurance Co., Ltd.
Team Leader	Andrew Liu
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Fax	886-2-2708-2167
Website	https://www.cathaylife.com.tw/cathaylife/

Hong Qiao Environment-Technology Engineering Inc. The Team of Food Waste Recycling and Reuse By With Technology.



Awards Acceptance Statement

We are immensely thankful for the recognition and support from the judging panel. Everyone at HUNG CHIAO shares this honor. We also extend our gratitude to the Taoyuan City Government for recommending Academician Young Chiu-Chung from Academia Sinica. Dr. Young's fast-digesting enzyme strains and HUNG CHIAO's patented automated process enable the mass production of organic fertilizers—the 3-hour kitchen waste transformation. This significantly contributes to Taiwan's active engagement in ESG, corporate social responsibility, carbon reduction, and the promotion of green energy and environmental protection.

We have now established ourselves as the primary partner for Taoyuan City in processing over a hundred tons of raw and cooked food waste daily. Additionally, we have been recognized as a carbon reduction partner by prominent enterprises, including TSMC. In October 2021, our food waste conversion technology played a pivotal role in supporting Executive Yuan's African swine fever prevention program. Consequently, the Ministry of Environment highly recommended environmental protection departments across Taiwan to learn from us.

Going forward, our company is committed to enhancing our waste conversion technology, mitigating soil acidification in agricultural lands, and working towards zero carbon emissions. We aspire to become another pride of Taiwan.



Key Features

Food waste recycling and reuse

HUNG CHIAO's food waste recycling and reuse team focuses on resolving food waste problems. It has developed quick-decomposing enzyme strains for food waste and automated production equipment. It possesses patented technologies to effectively treat food waste and convert it into organic fertilizer, significantly reducing production costs. It also offers organic fertilizers to local farmers to help improve soil hardening issues. The team's R&D achievements not only play a vital role in the production of agricultural products such as Miaoli strawberries and Daxi rice but also serve as a model for Taoyuan City Government's African swine fever prevention and control program, leading to emulation by other counties and cities. Its enzyme decomposition technology for treating food waste is in line with the global trend of carbon reduction, enabling Taiwan to further move towards a circular economy. Attracting attention and emulation at home and abroad, it resolves food waste pollution while increasing the output value of agriculture and animal husbandry, making great contributions to both the environment and the industry.

Business Philosophy

As an old saying goes, "No root, no fruit." We need to appreciate what mother nature gives us and protect it to the best we can. The expectation is the driving force for me to research on food waste conversion, fertilizer cost reduction and farmland revitalization. Please cherish the land of Taiwan.

— Team Leader: James Chang, Chairman —

Company Profile & Business Contact Information

Organization	The Team of Food Waste Recycling and Reuse By With Technology./Hong Qiao Environment-Technology Engineering Inc.
Team Leader	James Chang
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Website	https://www.facebook.com/hongqiao1992

Individual Category

Innovative Elite Award (General Individual)

Huai-Tei Yang	TSMC Academician / Fab Director Taiwan Semiconductor Manufacturing Company	74
Ke-Wei Su	Deputy Director Taiwan Semiconductor Manufacturing Company	76
Mu-Tao Chu	Chief Operations Officer Electronic and Optoelectronic System Research Laboratories (EOSL), ITRI	78
Szu-ming Liu	President HTC VIVE ORIGINALS	80
Ho-Chang Kuo	Professor Kaohsiung Chang Gung Memorial Hospital	82
Chia-Hung Huang	Deputy Supervisor Metal Industries Research&Development Centre	84

Innovative Elite Award (Female)

Karen Chia-Jung Hsu	Assistant General Manager MediaTek Inc. Computing, Connectivity & Metaverse Business Group	86
Maggie Lu	Deputy General Director Biomedical Technology and Device Research Laboratories, ITRI	88

Innovative Elite Award (Female)

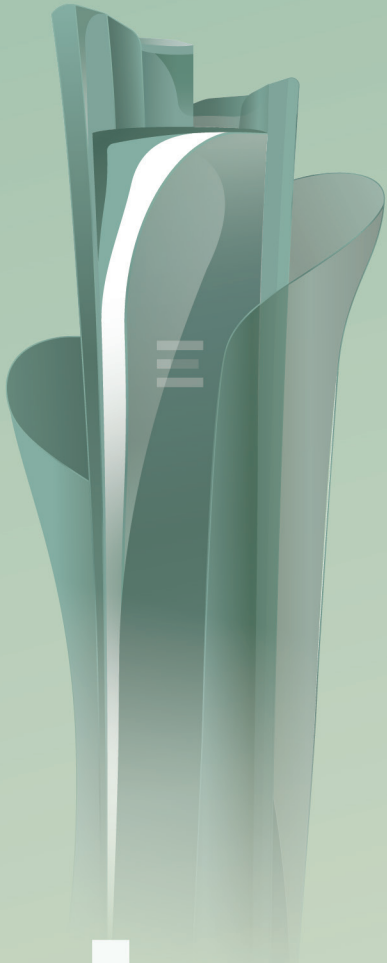
H.F. Chen	TSMC Academician / Deputy Director Taiwan Semiconductor Manufacturing Company	90
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Innovative Elite Award (Youth)

Fu-Kang Wang	Assistant Professor Department of Electrical Engineering, National Sun Yat-Sen University	92
Shin-Hung Kuo	Chief Metal Industries Research&Development Centre Casting Technology Section Metal Processing R&D Department	94
Yung-Chieh Hung	Manager Taiwan Semiconductor Manufacturing Company	96
Shaw Wu	President Data Yoo Application Co., Ltd.	98
Sih-Han Li	Deputy R&D Director Industrial Technology Research Institute	100

Industry-Academia Collaboration Award

Ching-Yao Huang	Professor National Yang Ming Chiao Tung University	102
Wen-Hsi Lee	Professor Department of Electrical Engineering, National Cheng Kung University	104



Individual



Awards Acceptance Statement

I am deeply grateful to the company for the opportunity to represent and showcase our semiconductor technology on the global stage, allowing me to be a part of the National Industrial Innovation Award. I would also like to express my gratitude to Senior Vice President Y.P. Chin, Vice President Y.L. Wang, Vice President Ray Chuang, and my advisor Dr. Edward Yi Chang for their invaluable guidance and support throughout my career. Their mentorship has been immensely beneficial to

me, both in my professional development and in shaping my approach and attitude towards research and innovation.

I also want to extend my thanks to my colleagues at Fab18A for their indispensable assistance and advice. Even while I was at TSMC Arizona, their unwavering support and assistance in solving numerous challenges under such heavy workloads were greatly appreciated.

Lastly, I would like to express my heartfelt gratitude to my parents, my wife Wei Jun, and my beloved cats. Their support has been instrumental in allowing me to maintain a balance between my commitments to my company and my family without worries. They have also supported my decision to relocate abroad, leaving my comfort zone to contribute to the company's expansion in the global semiconductor landscape. I've been fortunate to have friends, colleagues, and supply chain partners who have provided me with blessings and tangible assistance during challenging times. Thank you all from the bottom of my heart, thank you!



Key Features

Huai-Tei Yang, specializing in semiconductor equipment technology and material design, has been working in semiconductor process technology for nearly 30 years. He has achieved outstanding accomplishments in various areas, including in-house mass production of EUV pellicles, slurry formula development, cross-factory advanced chemical vapor deposition technology integration, and the introduction of digitized fabs. He developed a new "multiple models system" to meet the requirement for planarization control and process stability for mass production. He developed a slurry formula exclusively for TSMC to minimize organic residues and improve the characteristics, yield, and reliability of products. Yang also works on promoting digitized fabs, including the deployment of automatic systems for production lines to greatly reduce manual operations. He integrates various systems based on digital transformation and adjusts parameters through remote connection. Yang has made outstanding contributions to semiconductor process technology and helped Taiwan suppliers establish technical autonomy. This has greatly enhanced their corporate competitiveness, aligning them with the global market to further drive the development of the semiconductor industry.

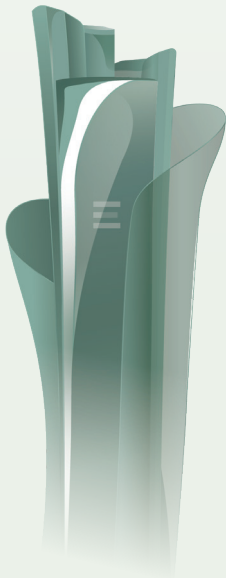
Business Philosophy

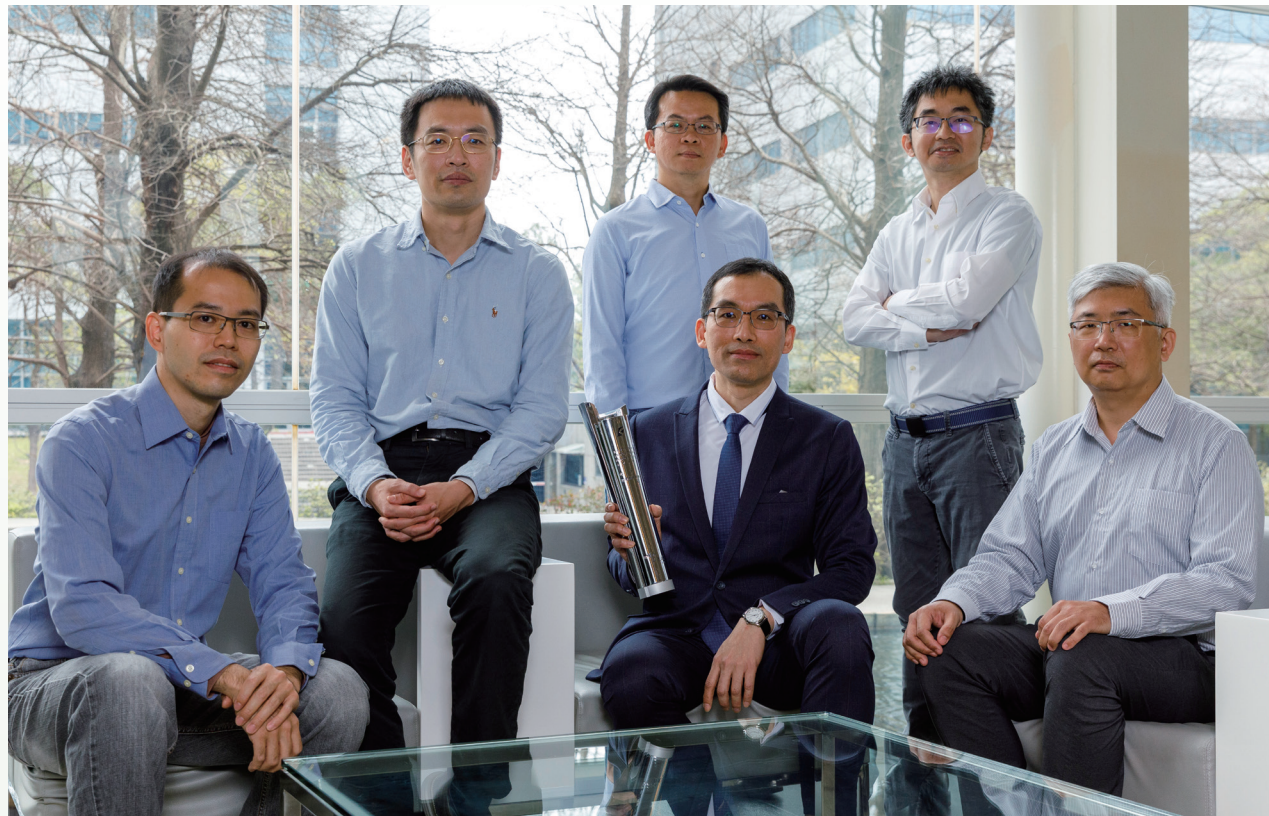
Success is standing up one more time than you fall down.

— Huai-Tei Yang, Fab Director —

Resume

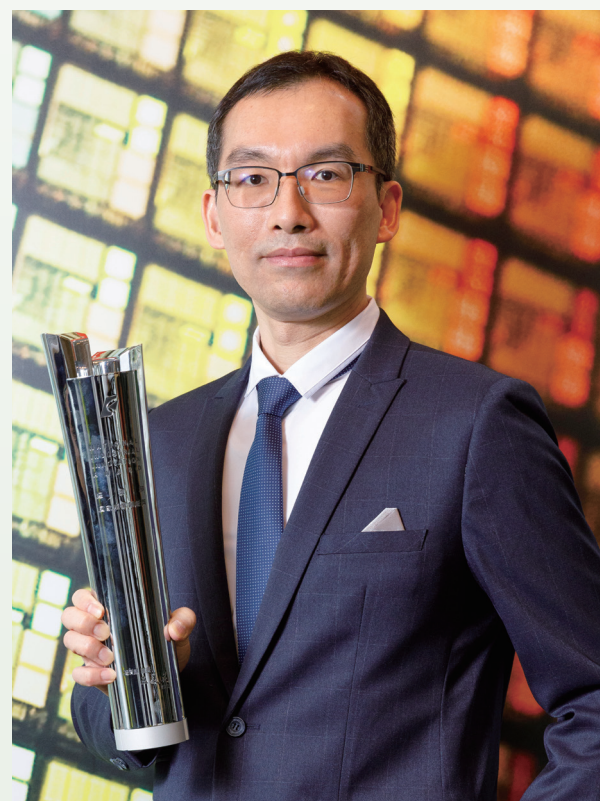
Education	<ul style="list-style-type: none">M.S. National Yang Ming Chiao Tung University (2007–2011)B.S. Tamkang University (1988–1992)
Experience	<ul style="list-style-type: none">TSMC Academician/Fab Director, TSMC Fab21 (2023–present)TSMC Academician/Technical Director, TSMC Fab18A (2019–2022)TSMC Academician/Director, TSMC RDPC (2016–2019)TSMC Academician/Deputy Director, Department Manager, Manager, TSMC Fab4, Fab6, Fab14 A/B, Backend Operation Division (1998–2016)
Awards	<ul style="list-style-type: none">Outstanding Labor, Southern Taiwan Science Park, 2011TSMC Academician, TSMC Academy, 2011Outstanding Engineer, Chinese Institute of Engineers, 2012Outstanding Manufacturing Manager, Chinese Professional Management Association, 2014Golden Trade Secret Award, TSMC





Awards Acceptance Statement

The ongoing guidance and support from supervisors, seniors, and colleagues in the semiconductor industry, the insights from my mentors, and the enduring encouragement and backing from my family and friends have significantly shaped my capacity to bring forth innovative ideas and contribute to the sustainable growth of the industry. As pioneers in the semiconductor domain, we possess both the determination and duty to persistently innovate amidst emerging challenges, and to scale up the fruits of our innovation, integrating them into the fabric of human civilization. This journey is limitless yet luminous, and I am privileged to collaborate with TSMC in crafting wonders. Together, we remain dedicated to tirelessly striving for a brighter global future.



Key Features

As the pioneer of the TSMC Model Interface (TMI), Deputy Director Ke-Wei Su has successfully applied it to the process R&D and talent cultivation at TSMC. Its impact has extended to the EDA environment of IC design houses, significantly improving deployment efficiency and productivity. This led to cross-industry collaboration in the semiconductor industry and was recognized and standardized by the international Compact Model Coalition in 2010, becoming the first industry standard for SPICE interface. He effectively integrates resources and develops innovative measurement techniques, such as rapid current-voltage measurement, efficient baseband noise measurement, and automatic measurement of RF components. His innovative approach has led the TSMC SPICE team to become an indispensable part of the industry, benefitting the global IC design industry and underscoring his significant role in the semiconductor industry.

Business Philosophy

Exploring sincerity is an endless journey, and the natural expression of sincerity is also without end.

— Ke-Wei Su, Deputy Director —

Resume

Education

- Ph.D. in EE, National Taiwan University (1994–1998)
- B.S. in EE, National Taiwan University (1990–1994)

Experience

- TSMC/TMLD/Deputy Director (2019–present)
- TSMC/TMLD/Department Manager (2014–2019)
- TSMC/TMLD/Manager (2008–2014)
- TSMC/ATMD/Section Manager (2004–2008)
- TSMC/DTMD/Principal Engineer (2001–2004)



Awards Acceptance Statement

From the moment ITRI recommended me to the acknowledgment of the award, I've been filled with immense gratitude. Looking back on the past decade, I realize that every achievement has been our team's collective effort.

Our journey with Micro-LED began from the ground up, evolving from a novel concept to a globally competitive field. Similarly, our journey with UVC components spanned from epitaxial growth to product development. We started from scratch and now we help manufacturers achieve top-efficiency components. Our work in Metamerism human factor lighting has been leading industry transformation, enhancing lighting quality, and pioneering new concepts.

Despite challenges and uncertainties, each difficulty underscores the worth of our success, and every doubt serves as a valuable lesson. This award symbolizes the accomplishments of our entire team.

Folks! Dreams ignite sparks of beauty, but it's through action and perseverance that those sparks become a brilliant flame!



Key Features

Mu-Tao Chu first proposed the concept of Micro LED and successfully produced the world's first Micro LED on substrate product. This breakthrough not only established the technology globally but also spurred a shift in the LED industry. He has also initiated a new industry in Taiwan, fostering healthier lighting environments through Metamerism illumination via completing multiple demonstration site applications and establishing the domestic production of key materials, component packaging, and modules. Additionally, he has assisted in developing deep ultraviolet light devices that meet world-class standards for real-time sterilization applications. Patented technologies developed under his wing enable industries to compete in the global market, with an extensive foray into automotive, XR virtual studios, and high-end gaming. His efforts have driven IoT innovation and attracted investments from 50 companies worth NT\$1.18 billion (~US\$ 37 m), generating a derived production value of NT\$5 billion (US\$ 15.6 m). By successfully introducing a Metamerism human factor lighting environment into the industry, it has created a new cross-domain industry chain. By integrating resources from industry, academia, and research, he has accelerated the promotion and application of optoelectronics and compound semiconductors, making significant contributions to industry upgrades and transformation.

Business Philosophy

Folks! Dreams ignite sparks of beauty, but it's through action and perseverance that those sparks become a brilliant flame! Each hardship you face reveals your worth, and each moment of doubt paves the way for learning. Success comes from taking risks!

— Mu-Tao Chu, COO —

Resume

Education

- Ph.D., Graduate Institute of Precision Engineering, National Chung Hsing University (2008–2012)
- M.S., Physics, National Cheng Kung University (1982–1984)
- B.S., Physics, National Cheng Kung University (1978–1982)

Experience

- Chief Operations Officer, Electronic and Optoelectronic System Research Laboratories (EOSL), Industrial Technology Research Institute (ITRI) (2018–present)
- Division Director, Electronic and Optoelectronic System Research Laboratories (EOSL), Industrial Technology Research Institute (ITRI) (2005–2020)
- Division Director, Optoelectronic Research Laboratories, Industrial Technology Research Institute (ITRI) (2002–2005)
- Chairman, 3D Interaction & Display Association (3DIDA), (2022–present)
- Deputy Secretary General, Taiwan Optoelectronic Semiconductor Industry Association (TOSIA) (2007–present)

Awards

- R&D 100 Awards (2008, 2012, 2014, 2018, 2022)
- Elite Awards, ITRI (2014, 2018, 2022)
- Outstanding Engineer Award, Chinese Institute of Engineers (2017)
- National Standardization Award, BSMI (2009)
- The Executive Yuan Award for Outstanding Science and Technology Contribution, Executive Yuan (2008)
- National Management Excellence Award (2006)



elements. Besides musical performances, our team has collaborated on the hit series Light the Night to produce the first interactive play-style drama. We've developed both online and offline viewing modes, utilizing 5G technology to create an immersive theater experience.

Beyond innovating content formats, we aspire to guide the platform in expanding its reach into the realm of multiculturalism. Our aim is to lay a foundation of cultural creativity in anticipation of the burgeoning metaverse technology wave, delivering culturally enriching entertainment experiences to the world.

Lastly, I extend my heartfelt gratitude once again to the judges and organizers for their support and recognition of the XR entertainment industry. Their endorsement provides us with greater confidence and motivation to contribute further to this field.



Awards Acceptance Statement

Receiving recognition from the judges is a tremendous honor, reflecting not just my efforts but also the dedicated work of the HTC VIVE ORIGINALS team. It also serves as a testament to the evolving trends in the industry.

As the global XR industry increasingly shifts its attention to the METAVERSE, blending virtual and physical realities, our team has established a comprehensive XR content production process to extend our reach from XR content creation into the metaverse realm. Our goal is to progressively bring to life an entertainment metaverse that seamlessly integrates virtual and real

Key Features

Szu-ming Liu crosses over to film, television, music, and media marketing industries, with the aim of establishing Taiwan as a leader in innovative cultural and creative content. This includes combining volumetric capture, drama, music performances, and real-time gamified interactions to create new entertainment experiences and business models. As a global first, he has integrated the film, television, and music industries into the metaverse, and launched holographic concerts and immersive operas. This places Taiwan at the helm of creative entertainment, charting a course into unexplored territories. His endeavors have resulted in several internationally acclaimed original works from Taiwan, meshing Taiwan's creative power with XR technology to target the global market and build VR content industry clusters. For three consecutive years, this effort has been recognized and supported by the Ministry of Culture's flagship project subsidies. He has also pioneered the use of metaverse advertising agency applications on the BEATDAY holographic music metaverse platform, introducing brands to set up metaverse stores and creating a complete business model in this domain.

Business Philosophy

Innovation is a journey of vision and a practice of faith. It also entails the kind of unshaken tenacity that stands firm even in the face of prolonged failures.

— Szu-ming Liu, President of VIVE ORIGINALS —

Resume

Education

- Fu Jen Catholic University / Department of Philosophy
- Chien Kuo senior high school

Experience

- A well-known worker across pop music, film and television, media and virtual reality industries, currently the President of HTC VIVE ORIGINALS
- Former judge of Golden Melody Awards and TV Golden Bell Awards
- Director of TVBS TV program department
- President of Tudou.com Original Creation Center in Mainland China
- Director of Sanli Storytelling Workshop
- Song Lyricist and Album Producer

Awards

- 《BEATDAY》2022 SXSW Film Festival, XR Experience Spotlight
- 《The Sick Rose》77th Venice Film Festival, Venice Gap— Financing Market “VIRTUAL REALITY IMMERSIVE STORY PROJECTS”
- 《Gloomy Eyes》Annecy International Animated Film Festival “Cristal for the Best VR Work”
- 《Gloomy Eyes》2019 SXSW Film Festival “Jury Award for Storytelling”
- 《Gloomy Eyes》2018 Sundance Film Festival



Awards Acceptance Statement

Taiwan, with the world's third-highest incidence rate of Kawasaki disease, has dedicated nearly 20 years of research and clinical care to this pediatric condition. With over 3,000 treatment cases under our belt and interactions with thousands of parents online, we've identified the urgent need for developing objective molecular diagnostics. Early diagnosis and appropriate treatment are vital to prevent Kawasaki disease from damaging children's hearts and impacting their lives permanently. Consequently, by relentlessly pursuing clinical innovation in diagnostics, we have successfully created the world's first miRNA diagnostic kit specifically for Kawasaki disease. This groundbreaking molecular diagnostic kit has garnered numerous national patents and has been successfully transferred to Sofiva Genomics. It has also earned several national accolades, including the National Innovation Award, the FutureTech Award, and the Pharmaceutical Technology & Research Development Award. It is a significant advancement in diagnosing the challenging heart-affecting Kawasaki disease, and it promises to spare countless children worldwide from the distress caused by this illness.



Key Features

Dr. Ho-Chang Kuo is the creator of the world's first Kawasaki disease diagnostic tool. He developed a fast and accurate molecular diagnostic tool using miRNA and utilized next-gen sequencing technology and real-time PCR to detect the miRNA expression level of Kawasaki disease to successfully improve diagnosis accuracy. Dr. Kuo introduced machine learning algorithms to construct a highly accurate diagnostic model using the weighted expression of 10 types of miRNA. He successfully developed the Kawasaki disease miRNA detection kit and transferred the technology to Sofiva Genomics, expected to begin clinical use. The diagnosis is needed for 50,000 to 100,000 children each year, indicating a huge market with high-profit potential. The reagents and testing kits are extremely beneficial to the biotech and medical industry and can potentially save countless children from heart disease.

Business Philosophy

Committed to the innovative diagnosis and treatment of Kawasaki disease, we start from Taiwan to benefit children around the world, protecting their little hearts.

— Ho-Chang Kuo, Director of Kawasaki Disease Center/Professor —

Resume

Education

- Ph.D: Chang Gung University
- MD, National Yang-Ming University

Experience

- Professor, Chang Gung University (2019–present)
- Professor, Kaohsiung Chang Gung Memorial Hospital (2017–present)
- Chairman, Chinese Kawasaki Disease Parent Association (2014–2020)
- Chairman, Taiwan Association for the promotion of molecular hydrogen (2020–present)
- Ranked Top 1 expert of Kawasaki disease in Asia (expertscape 2014)
- International Fellow of AAAAI (2014) Top 2% Scientist in the World

Awards

- National Science and Technology Council Mr. Wu Dayou Memorial Award.
- 2013 American Academy of Allergy Asthma and Immunology (AAAAI) International Young Investigator Award.
- Asian Society for Pediatric Research (ASPR) Young Investigators Award.
- Best research award of Taiwan Academy of Pediatric Allergy Asthma and Immunology 12 times, and 3 times of The Chinese Society of Immunology.
- Outstanding Teacher of Chang Gung University (3 times)
- National Science and Technology Council "Future Technology Award"



Awards Acceptance Statement

I am grateful for the recognition from the judges. I have actively engaged with industries and manufacturers across Taiwan, gaining a deep understanding of their current challenges and pain points. By collaborating with experts from various fields, I have been able to assist these industries in addressing their challenges, bringing forth product innovation, and contributing to their advancement and upgrades.

I have consistently followed the ethos of "collaborating for success and remembering our roots," aiming to contribute to businesses in Taiwan. Achieving the right technical level to meet industry needs is not a solo effort. I am deeply thankful for the collective strength of our entire team, which enables us to keep contributing to the industry. I'm thankful for the recognition from the judging panel. Moving forward, I'll strive for continuous improvement and extend our reach to other industries, furthering our contributions.



Key Features

Chia-Hung Huang has broken through the bottleneck of heat treatment for micro-components and developed a patented heat treatment collection device. He has assisted SHA YANG YE in developing a micro-gear heat treatment process and equipment, as well as provided gearbox components to Tesla and the U.S. Army Special Forces, with annual sales exceeding NT\$500 million (~US\$ 15.6m). He has also been instrumental in the R&D for metal heat treatment and surface treatment techniques to augment the lifespan and functionality of molds, and introduced internationally benchmarked high-pressure gas quenching vacuum carburizing heat treatment technology. Assisting manufacturers in increasing their products' added value by 2 to 5 times, he has facilitated investments amounting to NT\$230 million (~US\$7.2 m), creating a total output value of NT\$700 million (~US\$21.9 m). In addition, his R&D endeavors on surface modification technology for stainless steel and high-value surface treatment technology for cold work molds are estimated to facilitate investments of approximately NT\$100 million (~US\$ 3.1m) in R&D and production equipment with an annual increase of NT\$90 million (~US\$2.8m) in output value, stimulating investments of over NT\$40 million (~US\$ 1.3m) in new plants and equipment.

Business Philosophy

Opportunity favors the prepared. Let's work hard together, accomplish our mission, and always remember our roots!

— Chia-Hung Huang, Deputy Supervisor —

Resume

Education

- M.S. National University of Tainan (2007–2009)
- B.S. Ming Chi University of Technology (2003–2009)

Experience

- MIRDC/Surface Engineering & Heat Treatment Section / Deputy Supervisor (2020–present)
- MIRDC/Surface Engineering & Heat Treatment Section / Engineer (2016–2020)
- MIRDC/Surface Engineering & Heat Treatment Section / Assistant Engineer (2009–2016)
- Chia Nan University of Pharmacy & Science / Center of General Education / Adjunct Lecturer (2010–2011)
- National Quemoy University / Department of Electronic Engineering / Adjunct Lecturer (2010–2011)

Awards

- R&D 100-“Corrosion-Resistant, Surface Hardening System Equipment for Austenite Stainless Steel”, 2022
- Chinese Institute of Engineers "Outstanding Young Engineer Award-Mechanical Field", 2022
- CEO Awards—Silver Globee® Winner-High collecting rate of 100%, 2021
- R&D 100- "The Continuous Type Heat Treatment System Equipment for Micro Parts (CTHT) ", 2021
- Edison Awards- Bronze –“Continuous heat treatment system technology for micro components”, 2021
- Taiwan Innotech Expo-“Platinum Award-Heat Treatment Material Collection Device”, 2018

Innovative Elite Award
Female Category

MediaTek Inc.

Karen Chia-Jung Hsu

Assistant General Manager,
Computing, Connectivity & Metaverse Business Group

ICT Sector



Awards Acceptance Statement

I am deeply thankful to MediaTek for providing an environment that fosters growth and offers abundant opportunities. I'm equally grateful to my colleagues for their collaboration in pushing the envelope and inspiring each other to embrace complex challenges. Even amid diverse viewpoints, we maintain an inclusive atmosphere that guides us toward common ground. While we treasure the wisdom gained from our past achievements, breaking new ground is essential for setting unprecedented records. This is the ambition I hold for myself and the team under my guidance. A nurturing workplace and supportive peers, who are open to taking risks and learning from failures, pave the way for us to achieve groundbreaking successes. Our collective efforts are not just making waves in Taiwan's mobile communications industry but also marking significant milestones. I also want to extend my heartfelt thanks to the Ministry of Economic Affairs for acknowledging our team's hard work and dedication. This recognition fuels our commitment to continue making a difference.



Key Features

Karen Hsu has led an efficient team to design the first-generation mobile security platform architecture, developing key intellectual property for MediaTek and establishing performance analysis tools and workflows. She spearheaded the M21 team to develop the world's first modem that integrates six modes, achieving MediaTek's largest reduction in modem form factor, fastest completion of phone call testing, swiftest entry into customer mass production, and shortest time to pass China Mobile's warehousing certification. Her team has boosted MediaTek's market share in the low- and mid-range 4G smartphone segment and assisted MediaTek in entering the development of 5G technology to build an autonomous 5G industry chain. These efforts elevate MediaTek's global competitiveness and contribute immensely to social and economic progress.

Business Philosophy

Innovation means having the courage to make decisions that others dare not make. It's about honoring the team's expertise, unleashing their potential, being brave in taking responsibility, and leading by example to create new horizons.

— Karen Chia-Jung Hsu, Assistant General Manager, Computing, Connectivity & Metaverse Business Group —

Resume

Education

- M.S. National Yang Ming Chiao Tung University (1999–2001)
- B.S. National Yang Ming Chiao Tung University (1995–1999)

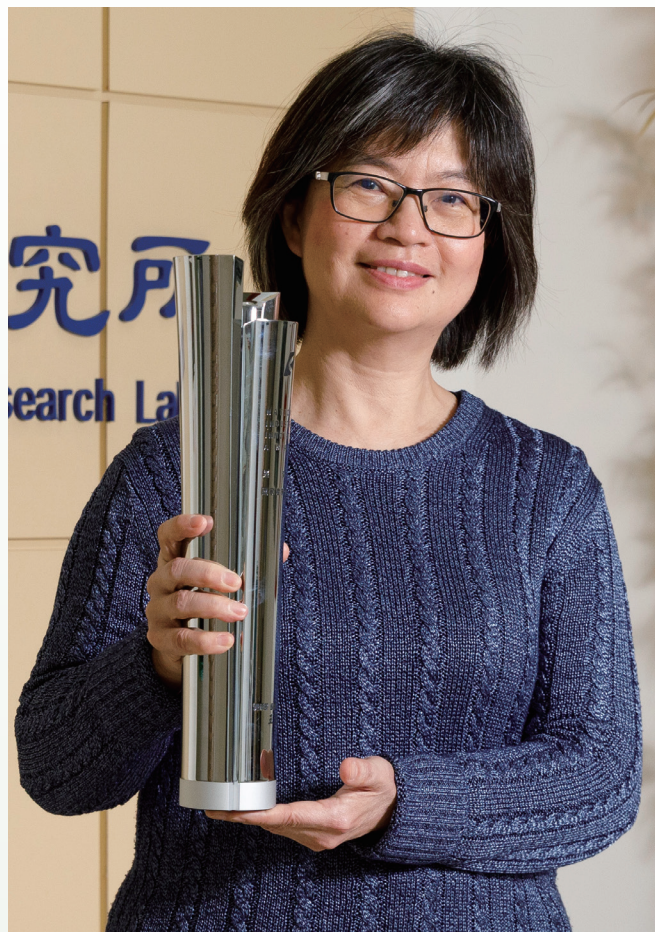
Experience

- Assistant General Manager, MediaTek Inc. (2022–Present)
- Deputy Director / Director, MediaTek Inc. (2014–2022)
- Technical Deputy Manager / (Sr.) Manager, MediaTek Inc. (2007–2014)
- (Sr.) Engineer, MediaTek Inc. (2003–2007)
- Engineer, Ambit Microsystems Corp. (2002–2003)
- Intern Teacher, NEHS at Science Part (2001–2002)

Awards

MediaTek CTC Paper

- Honorable Mention: Memory Disposition Methods and System (2005)
- Outstanding Paper: MTK Security System (2006)
- Outstanding Paper: Enhanced Secure Booting System (2007)
- Outstanding Paper: Patch System Applied on SoC ROM Code (2007)
- Honorable Mention: Offline SST: An Automatic System Exception Offline Analyzer (2007)
- Best Paper: The Introduction of Cross Core Communication Interface (2008)
- Best Paper: PAE and SPV: A Methodology to Evaluate System Performance and Optimize Chip Cost (2011)



Awards Acceptance Statement

I've devoted myself to the research and development of cutting-edge drug delivery systems and precision-targeted new medications, with a particular focus on creating novel therapeutic drugs for cancer, ophthalmology, and central nervous system disorders. Beyond licensing products to both domestic and international firms, I leverage technology platforms to support the biotechnology and pharmaceutical sectors. This work aids in establishing the biomedical industry's supply chain and propels the company to invest further in new drug development. Simultaneously, I also actively import international expertise and cultivate industry R&D talent through diverse platforms like IADDS, MitoBit Club, and relevant associations. This approach positions our team as the go-to choice for

the industry in seeking high-quality drugs or solutions. It is my aspiration to be a global visionary leader and a business value creator.

Beyond focusing on technology research and system establishment, I have also taken on the role of a professional manager. Under my leadership, the company's team successfully completed the clinical development and fundraising for four new drugs, significantly enhancing the company's value.

Outside of work, I contribute as an editorial member of international journals, collaborate with the Ministry of Science and Technology, and advise start-ups. I share my experiences in transforming innovative technologies into high-quality new drugs with the broader industry-academia-research-medical communities. My hope is that these small, accumulated achievements can embody the spirit of "taking from society, using for society, and giving back to society" to its fullest extent!



Key Features

Maggie Lu is an expert in targeted drugs and delivery technology at ITRI's Biomedical Technology and Device Research Laboratories. She is dedicated to innovative drug development, including novel sustained-release control technology that allows controlled long-acting treatment of both large and small-molecule drugs, minimizing the inconvenience of frequent patient injections. She has also developed a novel glycosylated conjugate and a highly-specific conjugate, successfully creating more than eight new antibody-drug conjugates. Lu has led her team to acquire 63 patents across 14 patent families and receive numerous prestigious research awards from the ITRI, Institute for Biotechnology and Medicine Industry (IBMI), Taipei Biotech Awards, Ministry of Economic Affairs, Edison Awards 2023 and R&D 100. In 2022, Lu was promoted to the highest honor of Senior Principal Researcher at the ITRI. She has collaborated with over 30 domestic and international biotech companies and actively fostered high-level talents for the industry. She has also facilitated the collaboration and commercial licensing between Taiwan's pharmaceuticals and international biotechnology and pharmaceutical companies, with the projected benefits of investment in innovative technologies and transformation exceeding NT\$5 billion (~US\$ 156.5 m).

Business Philosophy

It is my aspiration to be a global visionary leader and a business value creator who truly practices taking from society, using for society, and giving back to society.

— Maggie Lu, Deputy General Director —

Resume

Education

- *Ph.D. National Taiwan University (1997)
- *B.S. Soochow University (1990)

Experience

- Deputy General Director, Biomedical Technology and Device Research Laboratories (BDL), Industrial Technology Research Institute (ITRI) (2023-present)
- Division Director, BDL, ITRI (2021-present)
- General Manager, Metagone Biotech Inc. (2018-2021)
- Deputy Division Director, BDL, ITRI (2014-2018)

Awards

- Moderna Taiwan mRNA Innovation Awards, 2023
- ITRI Outstanding Industrial Contribution Award, 2023
- ITRI Outstanding Research Award, 2023
- DOIT Outstanding Industrial Contribution Award-Industry Technology Innovation Award, 2023
- DOIT Outstanding Industrial Contribution Award-DOIT Program Resonance Technology Award, 2023
- R&D 100 Awards, 2023
- Edison Award, Silver, 2023
- 2022 Taipei Biotech Awards, Silver
- Outstanding Research Award, Gold Medal, Industrial Technology Research Institute (ITRI), 2022
- National Innovators Award, Research Center for Biotechnology and Medicine Policy, 2022



overcoming difficulties and challenges. I would like to dedicate this award to my colleagues in the R&D team.

I also want to express my heartfelt thanks to my siblings for their unwavering support. It's because of them that I can focus and sprint forward on the path of innovation with peace of mind. In the face of a challenging future, my commitment to advancing the semiconductor industry's innovation and breakthroughs remains determined.

Awards Acceptance Statement

I am deeply grateful for the government's support of industrial innovation, as well as the dedication of the staff and judges of the MOEA's National Industrial Innovation Award. The recognition from the judges fills me with both honor and joy as I receive this accolade.

Starting from my humble beginnings in the semiconductor industry, my passion for research and development drove me to continuously absorb and learn. Striving for excellence, I've been able to make meaningful contributions through relentless efforts. Working alongside a group of enthusiastic, outstanding, and like-minded colleagues in TSMC's world-class semiconductor R&D environment has been both a joy and a privilege. Together, we've sparked creativity,



Key Features

H.F. Chen and her team developed TSMC's first generation of FinFETs. Introducing new materials into the front-end process to resolve the high capacitance and resistance issues of FinFET devices, it enabled its 16nm process to possess world-class high performance and low power advantages. Her team also successfully developed an exclusive 7nm MEOL process, where their FinFET process technology quickly established a competitive barrier. TSMC's 7nm foundry technology won the 2021 IEEE Corporate Innovation Award, the world's largest professional association. In addition, her team has helped TSMC maintain a leading technical position in the competitive field of new-generation FinFET processes, thanks to its innovative 3nm FEOL shrinkage process and unique FinFlex technology, which offers adjustable channel widths.



Business Philosophy

The devil is in the details. By grasping the data details and the entire process and devising a comprehensive plan for each action, we can get it right on the first attempt and gain the first-mover advantage.

— H.F. Chen, Deputy Director —

Resume

Education

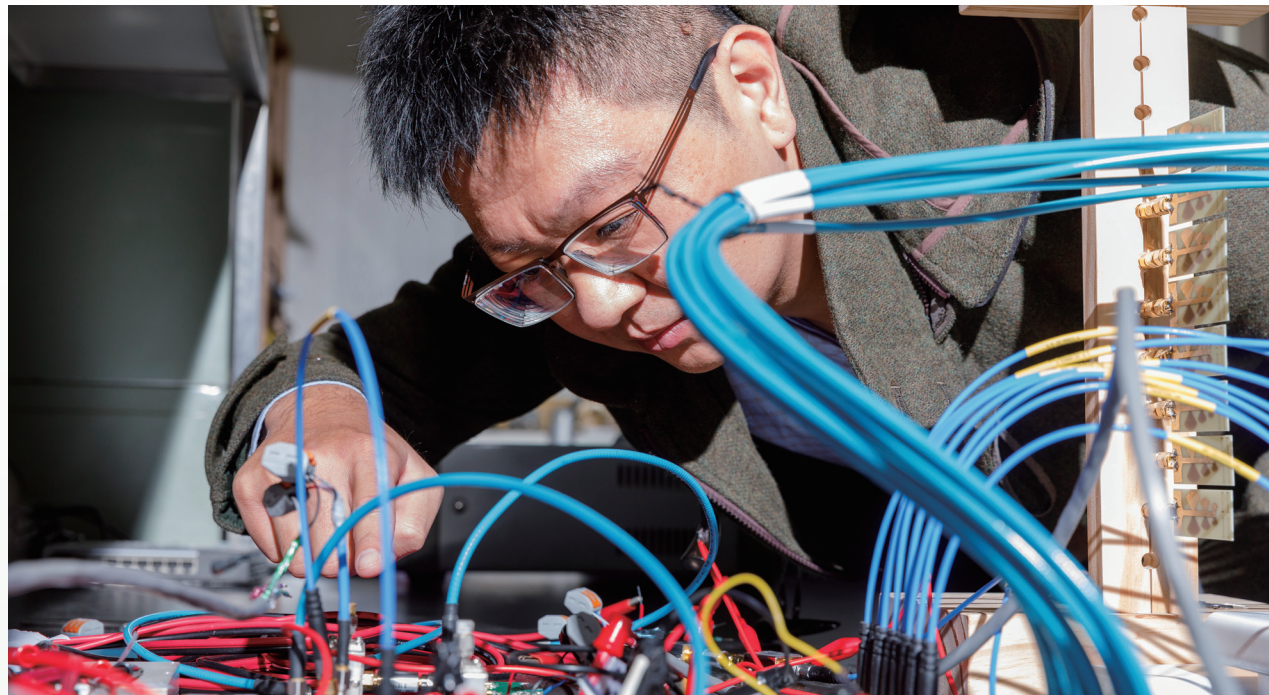
- M.S. National Chiao Tung University (1995–1997)
- B.S. National Tsing Hua University (1992–1995)

Experience

- TSMC/A14PT/ Vice Director (2023–present)
- TSMC/N3TED/ Vice Director (2021–2022)
- TSMC/N3PD/ Senior manager (2017–2021)
- TSMC/N7DD/ Manager (2015–2017)
- TSMC/N16DD/Assistant manager (2013–2015)

Awards

- 2017 First prize of the Most Patented Invention Award
- 2019 2nd prize of the Most Patented Invention Award
- 2021 First prize of the Most Patented Invention Award
- TSMC 2015 3rd -2021 9th Golden Trade Secrete Award
- TSMC Prolific Trade Secrete Innovator Award (2021)

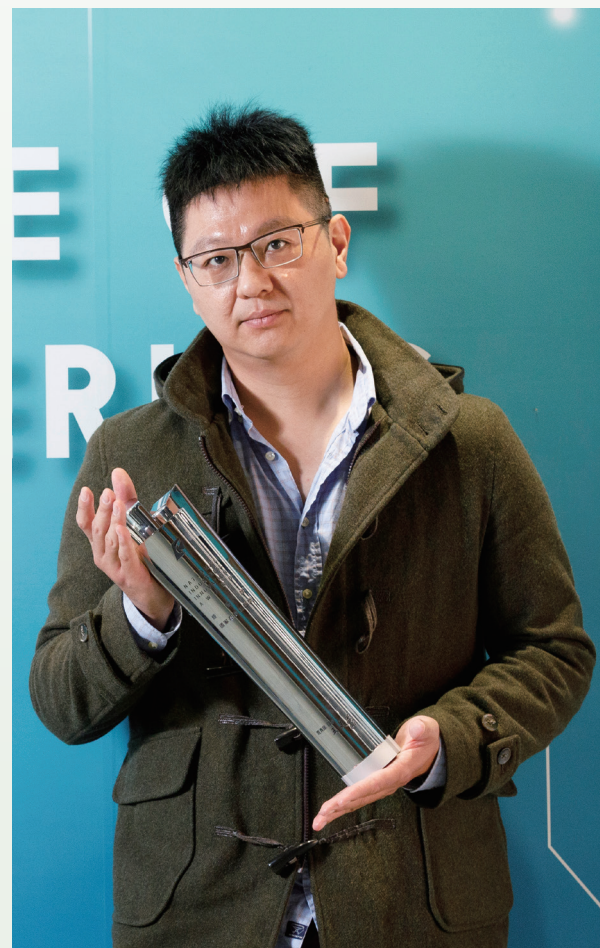


Awards Acceptance Statement

I wish to express my gratitude to the judges for their recognition and to commend the tireless efforts of the organizers. Additionally, I extend my appreciation to the government ministries for their steadfast support of academic innovation. I hope I can continue to drive progress in this regard.

During my studies, I'm grateful for the guidance of Dr. Horng Tzyy-Sheng, whose research insights and shared experiences have enriched my life. The invaluable knowledge, wisdom, and fresh perspectives from many inspiring individuals have been priceless. The support of my teachers and predecessors has smoothed my path, and I owe gratitude to my alma mater, National Sun Yat-sen University, for providing resources and a platform to pursue my studies, career, and life goals.

While enhancing the system's performance, I've had to meticulously verify each aspect and the overall impact of individual technologies. I'm thankful to my lab members for their contributions in accommodating my determined efforts. Lastly, I extend my gratitude to my family for their patience and unwavering support, which has empowered me to strive for self-improvement.



Key Features

Dr. Wang Fu-Kang's self-injection-locked radar system has revolutionized the inherent understanding of hardware architecture and signal processing. With extremely high detection sensitivity and anti-interference capability, this system has found applications in diverse fields such as livestock, telemedicine, and safety protection, becoming a leading product with an annual compound growth rate of over 10% in the industrial and consumer markets. Two start-ups derived from his innovative technology have been honored with multiple domestic awards, with their capital and revenue both surpassing NT\$100 million (~US\$3.13 m). He has collaborated with domestic and foreign startups, frequently landing high-value contract deals, and contributing 54 patents that advance industry development. In 2015, he licensed 13 patents to the American company VitalMetric, setting a record for the highest royalty in Taiwan's ICT industry. He has accumulated patent technology transfer, licensing, and industry-academia cooperation contracts worth over NT\$100 million (~US\$3.13 m). His in-depth collaboration with listed companies at home and abroad not only reflects his academic achievements but also his significant contributions to the industry.



Business Philosophy

As an interpreter, one must complete works with utmost sincerity and thorough consideration.

— Wang Fu-Kang, Assistant Professor —

Resume

Education

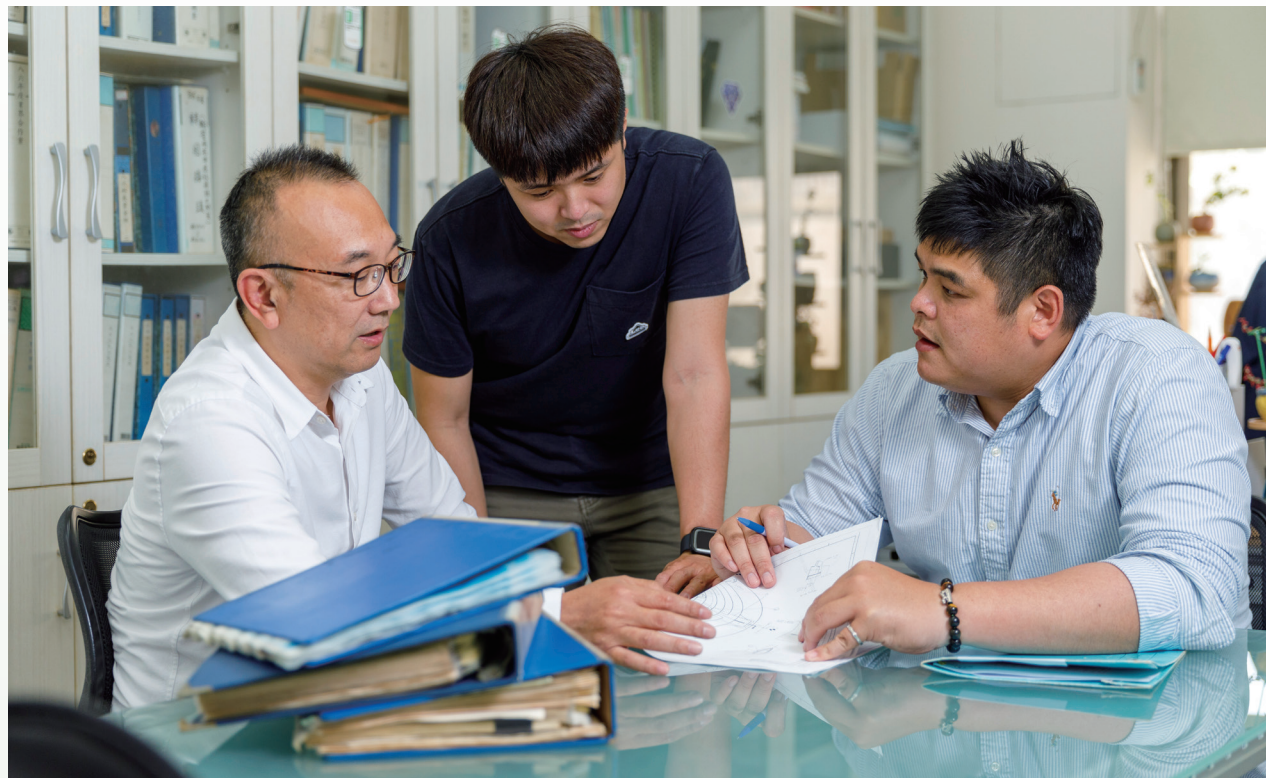
- Ph.D, National Sun Yat-sen University (2009–2013)
- M.S., National Sun Yat-sen University (2007–2009)
- B.S., National Sun Yat-sen University (2003–2007)

Experience

- Assistant Professor, NSYSU (2016–present)
- CTO, SIL Radar Technology Inc. (2018–2019)
- Visiting Researcher, IMEC (2015–2016)
- Postdoctoral Research Fellow, NSYSU (2014–2015, 2013)

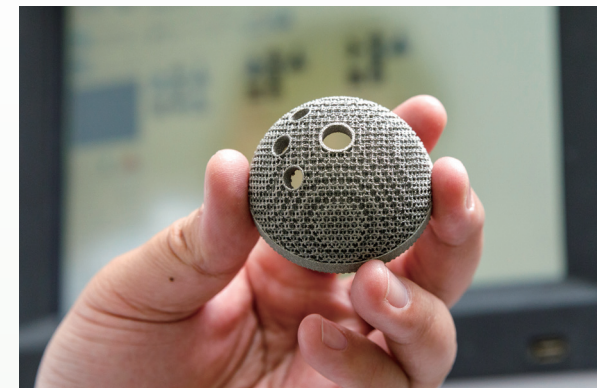
Awards

- Ta-You Wu Memorial Award, NSTC, 2021
- National Innovation Award, Research Center for Biotechnology and Medicine Policy, 2021
- Distinguished Junior Research Professorship, NSYSU, 2021–2024
- National Invention Award, MOEA, 2020
- Young Research Innovation Award, Pan Wen Yuan Foundation, 2018
- Technology Invention Award, Far Eastern Y.Z. Hsu Science and Technology Memorial Foundation, 2018



Awards Acceptance Statement

Receiving the National Industrial Innovation Award from the Ministry of Economic Affairs is both a delightful surprise and a tremendous honor. Winning the award isn't my primary goal, but it certainly serves as a significant source of encouragement for us researchers. I want to express my gratitude to my supportive family, whose constant presence has energized me and enriched my learning journey. I'd also like to thank my supervisors at the Metal Centre and my colleagues in the Casting Technology Section for the honor of working alongside the best team. This award holds great meaning for me. I've experienced both highs and lows, and this award has provided me with the motivation to persevere. I dedicate this honor to my supportive colleagues and loving family, and I'm forever grateful to them.



Key Features

Shin-Hung Kuo and his team have established the only 3D printing casting laboratory in Taiwan, providing one-stop casting and prototyping services. In 2021, it made it onto Time's 100 Best Inventions. He has developed a 3D printing sand casting mold system and enabled the domestication of 3D printing sand and resin, serving over 120 companies, earning orders exceeding NT\$500 million (~US\$ 15.6 m) and winning various awards in Taiwan and worldwide. He has devoted his research to various 3D printing technologies and green mold materials, promoting a circular economy-driven industry chain of casting materials. Adopting artificial casting materials has replaced the import of ceramic molding sand to reduce import costs. He also champions the high-value utilization of casting waste, treating over 500,000 metric tons annually to reduce the cost of waste molding sand treatment by NT\$800 million-1 billion per year (~US\$ 25 m- 31.3 m). Two by-products derived from it can generate an output value of NT\$1 billion (~US\$31.3 m), infusing greener innovation into Taiwan's casting industry.

Business Philosophy

True success in life is not about the magnitude of achievements, but whether we strive to fulfill ourselves, voice our ideas, and carve out our own journey.

— Shin-Hung Kuo, Chief —

Resume

Education

- M.S. National Kaohsiung University of Applied Sciences (2010–2011)
- B.S. Cheng Shiu University (2005–2006)

Experience

- EGINEER and Chief,MIRDC Corp. (2022–present)
- EGINEER, MIRDC Corp. (2011–2022)

Awards

- Gold Medal Award, Taiwan Innotech Expo Invention Award, 2020
- Best Inventions, TIME, 2021
- Silver Award, Edison Awards, 2022



Awards Acceptance Statement

While I was pursuing my studies in the U.S., Dr. Wolfgang Sigmund imparted a lasting piece of wisdom that resonated with me: "Ph.D. students should go beyond the capacity to think independently and execute their ideas through experimentation and experience." The journey from innovation to implementation resembles ascending a mountain's peak, requiring a well-crafted plan and steadfast commitment to witness the brilliant sunrise at the summit. I extend my gratitude to TSMC for affording me the opportunity to engage in the groundbreaking Barrierless Metal Interconnects Project in such an innovative environment.

This venture has not only challenged Moore's Law but also introduced a fresh and viable vision for the next generation of interconnect technology. I express my heartfelt appreciation to the dedicated teams that contributed to this project, bringing innovation to fruition and creating the world's best computing chips. I am immensely proud and fulfilled to have played a role in this remarkable team.

Key Features

Yung-Chieh Hung has promoted selective metal deposition technology to successfully overcome the bottleneck of the 7nm process. This critical technology has safeguarded Taiwan's competitive advantage in the semiconductor industry and helped TSMC to achieve great success in the 7nm process, winning the IEEE Corporate Innovation Award in 2021. The development of the 7nm technology has not only assisted chip designers worldwide in achieving innovation but also recorded impressive achievements for semiconductor players worldwide. His design continues to contribute to advanced manufacturing processes, improving the defects in the 5nm process and extending the key technology to 3nm and future advanced processes. The selective metal deposition process 2.0 to 2.1 designed by Hung and his team successfully solved the reliability issues of 3nm chips, improving yield and reliability. This effort has helped TSMC secure the industry-exclusive barrierless selective metal deposition technology, an essential for advanced manufacturing processes. It has allowed Moore's Law to persist and significantly shorten the gap between R&D to mass production.



Business Philosophy

The process from innovation to execution to realization is like a marathon. Persistent accumulation is the only way to repeatedly create miracles.

— Yung-Chieh Hung, Manager —

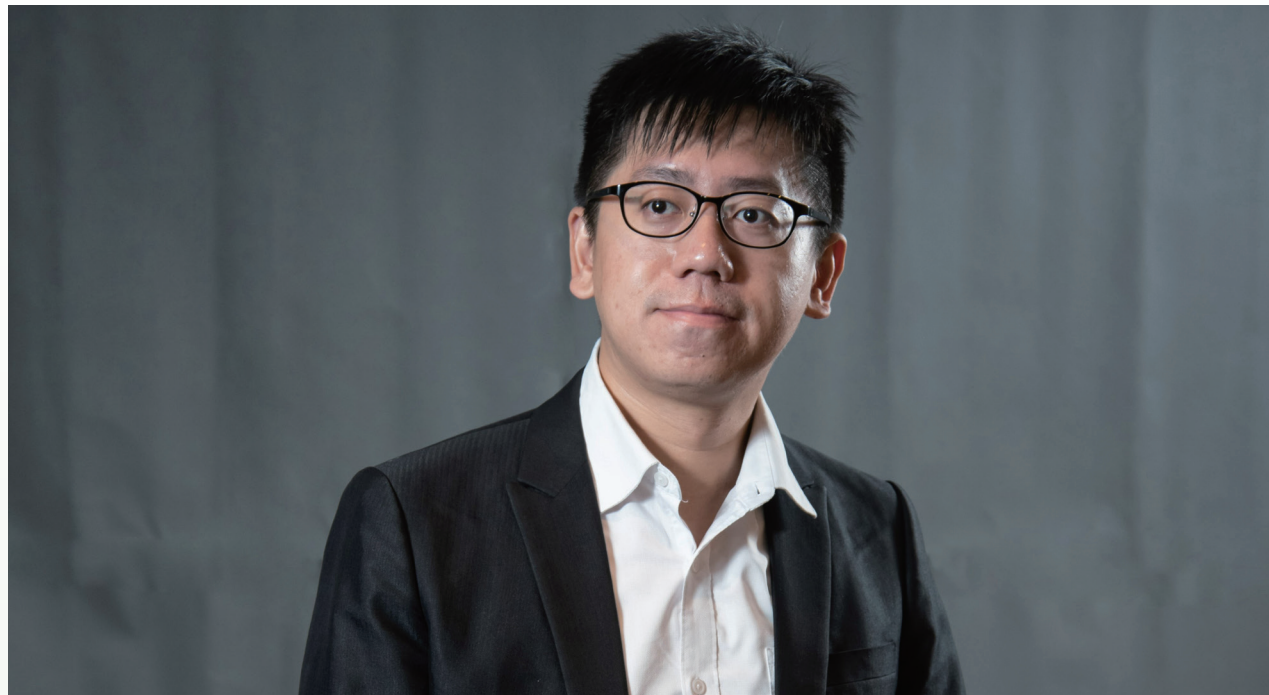
Resume

Education

- Ph.D. in Materials Science and Engineering, University of Florida, USA (2012–2016)
- B.S in Materials Science and Engineering, National Cheng-Kung University (2006–2010)

Experience

- TSMC/ F12B / Section Manager (2020–present)
- TSMC/ F12B / Principal Engineer (2016–2020)

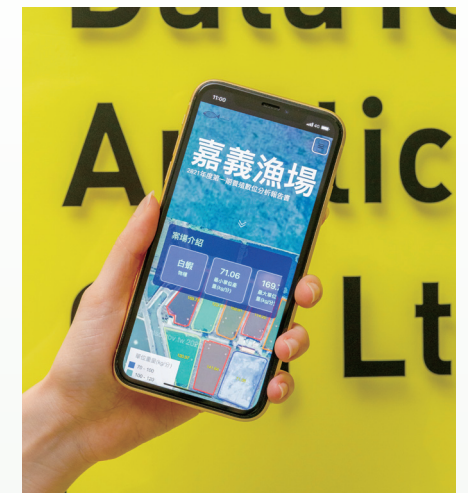


Awards Acceptance Statement

Read ten thousand books, travel ten thousand miles—the pursuit of our dreams and envisioning global change begin with rolling up our sleeves and taking action. From humble beginning, we've applied data to agriculture and other traditional industries, have been challenged by customers skepticism, and ultimately have had our technology validated and recognized by our customers. This path has deepened our understanding of humanity and technology. Our unwavering focus remains on improving agricultural products and bolstering resilience in the face of climate change for sustainable development. I extend my gratitude to my colleagues, partners, customers, and everyone who supported me. Much appreciation also goes to the Taiwan government for its ongoing support. I have high hopes for the future of DataYoo, and this award serves as an affirmation. Thank you once again.

Key Features

Shaw Wu has created a comprehensive crop algorithm system and applied agricultural meteorological data to discover key cultivation methods, bringing revolutionary changes to Taiwan's smart agriculture. DataYoo founded by him became Taiwan's first startup to collaborate with the World Farmers' Organisation (WFO) in 2021. They also presented their transnational collaborative achievements using its patented algorithmic system at the United Nations COP26 Climate Conference. By marrying data science with agriculture, he has invented 4 patented algorithms and collaborated with Qualcomm to create the world's first edge computing chip with crop algorithms. The system is able to identify key planting parameters for crops to enable efficient cultivation and agricultural transformation. The company's services extend to both domestic and overseas clients, covering a total agricultural land area exceeding 20,000 hectares. Wu's scientific management methods strengthen agriculture's resilience to climate change, making significant contributions to global agricultural development.



Business Philosophy

We want to revolutionize traditional industries with data science and bring our technology and Taiwan's technology overseas. Through data, we aim to bring about positive business transformation and change, making agriculture a competitive technology-led industry.

— Shaw Wu, President —

Resume

Education

- Ph.D. National Chengchi University (2017–until now)
- M.S. National Chengchi University (2014–2015)
- B.S. Chung Shan Medical University (2005–2009)

Experience

- Founder & President, DataYoo Application Co., Ltd. (2019–present)
- Senior Executive Officer, Presidential Hackathon (2019–present)
- Consultant, The TaiwanICDF (2018–present)
- Consultant, Agriculture and Food Agency X National Chung Hsing University (2021–present)
- Founder, Community of microclimate in field (2017–2019)
- Data Scientist, Institute for Information Industry (2013–2017)

Awards

- Affirmed as an influential technology enterprise by AVPN, 2022
- DBS Social Enterprise Grant Programme Award, 2021
- InnoVEX Pitch Contest winner (Global), 2021
- Winner, THE KEEP WALKING FUND, 2020
- Government Ministry of Science and Technology: FITI Startup plan TOP 10 team, 2020
- Government Industrial Development Bureau: AI HUB Star Award, 2019



Awards Acceptance Statement

I'm grateful for ITRI's recommendation and the Ministry of Economic Affairs' recognition for bestowing upon me this honor.

This recognition belongs to every team member, and I'd like to express my gratitude to the entire team for their invaluable contributions.

At ITRI's Electronic and Optoelectronic System Research Laboratories, our team is dedicated to advancing core technologies in the next generation of memory, emerging in-memory computing, and UHF wireless communication. We actively collaborate with both domestic and international partners to transition towards mass production, aligning ourselves with market demand. Our goal is to not only implement these technologies but also work in partnerships to foster new business opportunities. We aim to contribute to the establishment of a strong foundation for Taiwan's industry in the coming decade.



Key Features

Sih-Han Li is an expert in the field of semiconductor chip design. His team has developed high-speed next-gen MRAM, high-efficiency power amplifier chips, and high-energy-efficient memory computing AI chips. These world-class chips have been presented multiple times at premier international conferences. He has also established a vertically-integrated verification platform for high-frequency power amplifiers, components, and circuits to serve high-frequency related industries in Taiwan. His team has made significant strides in memory and high-frequency industries, including RRAM technology transferred to Winbond and TSMC, both of which have entered mass production. Collaborative ventures with renowned domestic and global manufacturers on new chip development are ongoing. He continues to lead his team at ITRI to connect industry, academia, and research to promote Taiwan's memory computing and high-frequency industry chain, accelerating the evolution of next-gen semiconductor chips and pushing the boundaries of the industry.

Business Philosophy

You must practice all the time because only practice will never let you down! When you feel pain, it also means progress!

— Sih-Han Li, Deputy R&D Director —

Resume

Education

- M.S. National Cheng Kung University (2009–2011)
- B.S. National Taiwan University of Science and Technology (2007–2009)

Experience

- Deputy R&D Director, ITRI/EOSL (2023–present)
- Principal Engineer, ITRI/EOSL (2022–present)
- Manager, ITRI/EOSL (2019–2022)
- Deputy Manager, ITRI/EOSL (2017–2018)
- Deputy Project Manager, ITRI/EOSL (2016–2017)

Awards

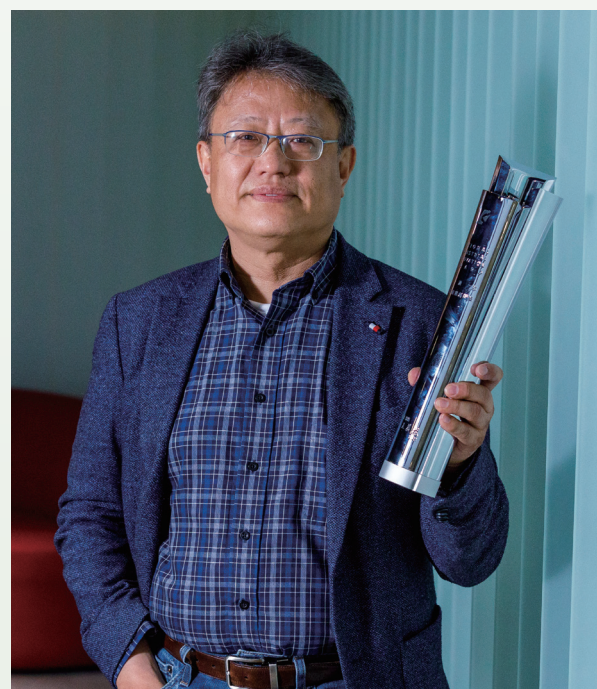
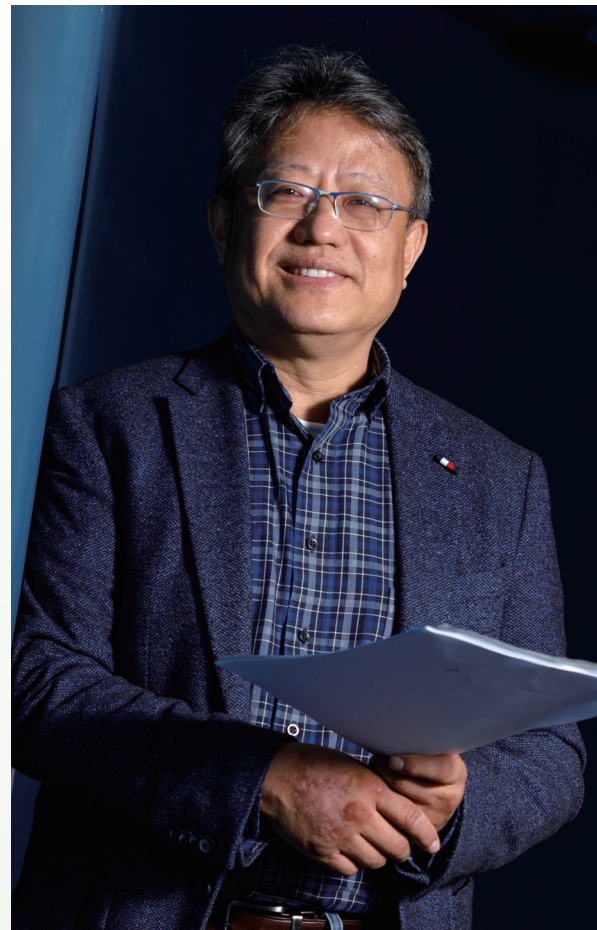
- Hsinchu Outstanding Manager Award, Hsinchu City Professional Management Association, 2022
- R&D 100 Awards, R&D100, 2022
- Annual best paper award, ITRI, 2022
- Annual best paper award, ITRI, 2021

Awards Acceptance Statement

Receiving the Industry-Academia Collaboration Award in the National Industrial Innovation Award is a profound honor and the ultimate acknowledgment of my two decades of commitment to scientific research, entrepreneurship promotion, and fostering collaboration between academia and industry.

As a scientist and educator, I firmly believe that science and technology hold the power to enhance the quality of people's lives. Industry-academia collaboration and entrepreneurship stand as pivotal avenues to realize this vision. I extend my gratitude to my research team, and entrepreneurial and industrial partners for their unwavering support. The research freedom and environment provided by Yang Ming Chiao Tung University have been essential in nurturing our innovation.

This award serves as an encouragement for our team's ongoing endeavors. We remain committed to making further contributions and delivering value to society through scientific research, entrepreneurship, and academia-industry collaborations. I'd like to sincerely thank the government and all supporting agencies for their continuous provision of resources over the years. Their recognition and support have been instrumental in propelling us forward.



Key Features

Dr. Ching-Yao Huang is a highly accomplished figure in the realm of startups, showcasing a unique blend of academic expertise and practical skills. Notably, he played a pivotal role in leading the Taiwan team's involvement in the Open Fog Consortium in 2016. Within this consortium, he took on the responsibilities of co-chair of the Liaison Working Group and chairman of the Greater China Testbed, demonstrating his leadership and collaborative abilities. Dr. Huang's entrepreneurial spirit is evident through his establishment of three companies: GoMore in 2011, FiduciaEdge in 2020, and LocusConnect in 2023. The success of these ventures is reflected in their respective valuations, with the first two companies reaching NT\$1,000 million and NT\$300 million, attesting to his remarkable academic prowess and practical business acumen. In addition to his entrepreneurial ventures, Dr. Huang has contributed significantly to the academic landscape. In 2013, he founded the Center of Industry Accelerator and Patent Strategy at NCTU, an initiative affiliated with the university. This center has played a crucial role in guiding more than 1,100 startups, illustrating Dr. Huang's commitment to fostering innovation and supporting emerging businesses. Dr. Huang's impact extends beyond individual enterprises and academic initiatives. He has actively participated in various leadership roles, including serving as the chairman of the Chinese Business Incubation Association and the Asian Association of Business Incubation. Currently, he holds the position of chairman at the AsiaPacific Accelerator Network. Through these roles, he has made significant contributions to the promotion of innovation, entrepreneurship, and international cooperation in Taiwan.

Business Philosophy

Innovation is the key driving force behind industry development. Only with the courage to innovate and the persistence to put it into practice can we truly contribute to the industry. Receiving the honor of the Industry-Academia Collaboration Award from the Ministry of Economic Affairs, I hold my work in even higher regard. I will strive to constantly hone my innovative thinking and practical abilities to inject new energy into the industry. Let us work together to elevate the industry and create a more resilient future.

— Ching-Yao Huang Professor —

Resume

Education

- Ph.D. in Electrical and Computer Engineering, Rutgers University, USAS (1992–1996)
- M.S.E.E., New Jersey Institute of Technology, USA (1989–1991)
- B.S., National Taiwan University (1983–1987)

Experience

- Professor, National Yang Ming Chiao Tung University (2002–present)
- Director, Center of Industry Accelerator and Patent Strategy, IAPS (2013–present)
- Co-Founder, FiduciaEdge Technologies Co. Ltd. (2020–present)
- Chairman, Asia-Pacific Accelerator Network, AAN (2019–present)
- Advisory Committee, HYPE Sports Innovation (2018–present)
- Co-Founder, GoMore Inc. (2011–present)

Awards

- Fellow, Chinese Society for Management Of Technology, 2022



Awards Acceptance Statement

With 12 years in the industry and 19 years in academia, my 30 years of experience seamlessly blend practical workplace and academic knowledge. Driven by a strong sense of social responsibility, I initiated the establishment of the YAGEO-NCKU Joint Research Center, in partnership with Yageo, Taiwan's largest passive component manufacturer. Furthermore, I took the initiative to integrate Taiwan's passive component industry's upstream and downstream segments and founded the Taiwan Passive Components Industry Association. Our goal is to serve the needs of Taiwan's passive components sector and bolster the international competitiveness of our industry supply chain.

Over the past six years, I have spearheaded initiatives centered around aluminum as the core material, collaborating with students to pioneer innovative technologies in various applications. Together, we have developed four generations of groundbreaking technologies, leading to the establishment of three startups. These endeavors have resulted in the transfer of patented technologies valued at over NT\$20 million, serving as prime examples of university innovation and entrepreneurship. Our commitment to advancing core laboratory technologies has persisted, utilizing material innovation to catalyze industrial revolutions and propel Taiwan's industrial advancement, ultimately enhancing our global competitive edge.

To elevate Taiwan's industrial landscape, university-industry collaboration must target long-term projects exceeding the typical five-year horizon associated with low success rates. This strategic approach aims to bring forth true impact and revolution by supplementing the prevailing focus of Taiwanese companies on high success-rate, short-term development plans centered around product enhancement.

Key Features

Dr. Wen-Hsi Lee has linked top-tier passive component research centers worldwide, with the aim of making Taiwan's passive component industry a global leader in next-generation technology R&D. At the same time, he is aiding Taiwanese companies enter the high-value automotive electronic passive component market. He also oversees the Forward-looking Passive Components Industry-Academia Joint Research Center, working with AIR Center, MIT Nano Lab, NIMS, and Julich Research Center to conduct innovative research on next-gen passive component technologies. Lee has established the Taiwan Passive Component Industry Association to tackle shared concerns like carbon neutrality and energy demand faced by the global industry through horizontal resource integration. Meanwhile, he endorses the formation of a national team for Taiwan's passive component industry to create a win-win for both industry and academia.

Business Philosophy

Having a dream is the most beautiful thing. Realizing a dream demands hard work. It's not that our dreams are too big and destined to fail, but rather our abilities may sometimes fall short.

— Wen-Hsi Lee Professor —

Resume

Education

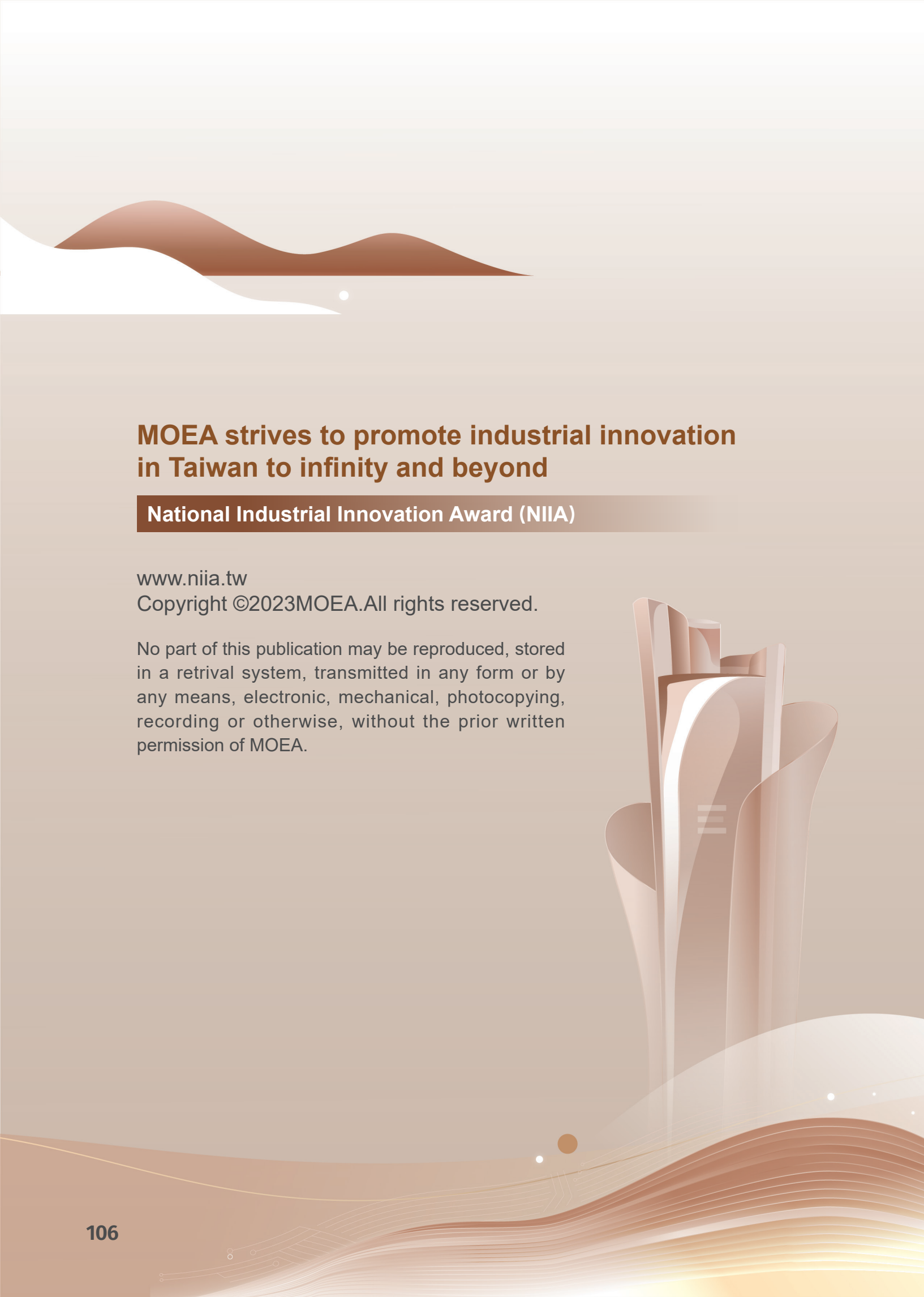
- Ph.D. in Institute of Electronics, National Chiao Tung University, TW (2000.06)
- M.S. Department of Materials and Optoelectronic Science, National Sun Yat-sen University (1987.06)
- B.S. Department of Chemistry, National Changhua University of Education (1983.06)

Experience

- Vice President, Taiwan Passive Component Industry Association (TPCIA) (2022–present)
- Professor, National Cheng Kung University (2010–present)
- Preparation Commissioner, Preparation Committee of TPCIA (2021)
- Director, YAGEO-NCKU Joint Research Center (2020)
- Director, TSMC-NCKU Research Center (2020)
- Consultant of Research, Development and Evaluation Commission, Tainan City Government (2020)

Awards

- Future Tech Award, NSTC, 2022
- Service Award Taiwan Ceramic Society, 2022
- Excellent Award in Industry and Academia, NCKU, 2021
- Excellent Award in Industry and Academia, NSTC, 2018
- Outstanding Engineering Prof Award, Kaohsiung Branch of The Chinese Institute of Electrical Engineering, 2016



MOEA strives to promote industrial innovation in Taiwan to infinity and beyond

National Industrial Innovation Award (NIIA)

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