

WONG CHIH CHIANG (KENTZ)

R&D & Technical Leader | Automated Inspection & Test (AOI, SPI, AXI, ICT) | PMP | AWS Certified AI Practitioner

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SUMMARY

R&D and technical leader with 20+ years in electronics manufacturing equipment, from field application engineering to R&D Director and Support Director. Built an 8-engineer R&D team that delivered 5+ inspection and test product lines, including a coating-AOI family scaled to 160+ units and the award-winning HIS-10 system, then built a 25-person support organisation from scratch and a new ICT business line worth USD 1M+ in its first year. Combines hands-on machine-vision, PLC and software depth with PMP-certified program management and recent training in data science and AI. Fluent in English and Mandarin.

CORE SKILLS

Leadership: R&D and engineering management · product roadmap · program management (PMP) · after-sales and field service · partner and key-account management · cross-site teams

Technical: AOI / 3D AOI · SPI · AXI · ICT · conformal-coating AOI · machine vision · PLC programming (Omron) · MES integration (SFIS, IPC-CFX) · design for cost / assembly

AI & software: Python · machine learning · deep learning · computer vision · on-device inference (ONNX) · Perl · SQL · AWS

PROFESSIONAL EXPERIENCE

Professional Development (career break), Singapore

Apr 2026 – Present

Data Science, AI & Project Management

- Completed NTU SCTP Advanced Professional Certificate in Data Science & AI; earned AWS Certified AI Practitioner (Jul 2026) and PMP (Sep 2026); built two deployed AI products (see Projects).

Triertech Co., Ltd., Suzhou, China

Sep 2024 – Apr 2026

Support Director

New test-and-inspection equipment company; led the after-sales organisation and the Digitaltest ICT business line across China and Taiwan.

- Built and led a **25-person multi-product support team** from scratch (AOI/SPI, AXI, conformal-coating AOI, ICT) with structured onboarding qualification and standard field tooling; team named in the company's Nepcon 2025 excellent-team commendation.
- Secured an ICT distribution and service partnership with Digitaltest (Germany) for China, Taiwan and Southeast Asia, from first contact to signed contract in 8 weeks, and grew the line to **USD 1M+ in first-year orders**.
- Turned a single service enquiry at a global industrial-drives manufacturer into a repeat key account: **2 ICT systems and 8 test fixtures** across 4 orders in 7 months.
- Closed the first Digitaltest system order under the new agreement and designed the cross-border order-to-install process (customs, terms, delivery scheduling) for imported test systems.
- Launched an **ICT calibration and maintenance service line**: earned OEM certification, built the process and certificates, and calibrated 7 systems at automotive and industrial customers.
- Contributed to development of the T7300 press-fit pin inspection system and led its field support; the system won **Gold at the 19th Step-by-Step Excellence Awards** (2025).

Suzhou LinkWays Tech Co., Ltd., Suzhou, China

Jan 2015 – Sep 2024

R&D Director

Jan 2023 – Sep 2024

- Promoted to lead the R&D department across Suzhou and Taiwan; owned the product roadmap and engineering delivery for the coating-AOI, Pin AOI and Hybrid Inspection System (HIS) lines.
- Drove design-for-cost and design-for-assembly changes across the range, saving **1-2 hours of wiring time** per coating-AOI unit.
- Led local engineering of a partner's selective-fluxing system for China, resolving process-capability (CPK) issues and designing new variants, leading to a **first EMS customer order**.
- Qualified a new UV coating material for 200 µm thickness inspection with a German partner, and presented inspection solutions to a leading EV maker, resulting in an RFQ.

R&D Manager

Feb 2017 – Dec 2022

Built and led a cross-site R&D team (peak 8 engineers) in Suzhou and Taiwan that delivered 5+ inspection and test product lines.

- Coating AOI: led 5 product generations in 18 months from one core platform, including simultaneous dual-side scanning; the family scaled to **160+ units shipped** to 15+ EMS/OEM customer groups in China, Taiwan, Mexico and Vietnam.
- HIS-10 Hybrid Inspection System: led a phased 2D/3D glue and pin inspection platform reaching $\pm 20\ \mu\text{m}$ pin accuracy; won the **Vision Award, 16th Step-by-Step awards** (2022).
- Pin AOI: created a press-fit pin inspection variant for automotive connectors, with about 30 systems delivered.
- Automotive radar test system: led a custom end-of-line test system for a global test-and-measurement OEM, from first prototype in 8 months to customer acceptance and a showcase at productronica Munich 2021.
- AI Assembly System: originated a deep-learning assembly-verification system, from concept to the company's **first AI product sales** in about 7 months; team shortlisted in Taiwan MOEA's AIGO AI competition.
- Delivered MES and traceability integrations (SFIS, TARS, IPC-CFX) linking inspection systems to customer shop-floor systems, and introduced software version control.
- Co-founded the technical partnership with Modus (Germany) that led to a licensed local-manufacturing agreement.

AOI Product Manager (ViTrox 3D AOI)

Jan 2015 – Jan 2017

- Introduced the 3D AOI platform at three China sites of a global EMS provider, winning **50+ system sales**.
- Converted the installed base into support contracts covering 60+ systems, about **RMB 2M a year** in recurring revenue.

Ellipsiz iNETest (Shanghai) Co. Ltd, Shanghai, China

Mar 2005 – Dec 2014

Senior Application Consultant

2012 – Dec 2014

Senior Application Engineer

2011 – 2012

Application Engineer

Mar 2005 – 2011

Agilent and ViTrox channel partner for AOI, SPI and X-ray inspection, supporting customers across China, Taiwan, Malaysia, Vietnam and Mexico.

- Led competitive benchmarks that helped win **9-system SPI and 13-system AOI orders** and an approved-vendor-list position at a global EMS provider.
- Resolved critical escalations, including a 90,000 ppm false-call issue traced to a software bug and fixed with the principal's R&D.
- Cut cycle time by **2–3 seconds per board** across 13 AOI lines through PLC programming, without new hardware.
- Wrote production Perl tools and two licensed AOI software add-ons (deployed at 8+ EMS sites) linking inspection data to customer shop-floor systems.
- Supported AOI support contracts reaching a company record of 100+ systems in China (2010); mentored new engineers and delivered on-site SPI/AOI training for EMS customers.
- Received 4 company awards in 5 years, including the Ellipsiz Group Outstanding Staff Award 2010.

Precicon Distribution & Controls (now LKH Precicon), Singapore

Nov 2003 – Feb 2005

Application Sales Engineer

- Technical support, presales and field sales for Omron and Schneider Electric industrial automation; covered a shared ~346-account West-zone territory and ran 10+ customer PLC/HMI training sessions.

PROJECTS (2026)

- **Defect Hunter** (defecthunter.drevoiq.com): free SMT inspection game (PWA) that generates pixel-accurate labelled training data as it builds each board; its 2.7 MB in-browser object-detection model reaches 100% recall at 99.6% precision on 500 held-out generated boards.
- **CalorieScanner** (cs.drevoiq.com): AI nutrition tracker that identifies food from a photo and returns calories and macros, with trend reports, PDF export and English/Chinese support; hosted on AWS.

EDUCATION & CERTIFICATIONS

- Bachelor of Engineering (Mechatronics), Second Class Upper Honours — NTU, Singapore
- Advanced Professional Certificate in Data Science & AI (SCTP) — NTU PaCE@NTU, 2026
- PMP® — PMI, 2026 · AWS Certified AI Practitioner, 2026 · Udacity AI Programming with Python, 2019