CW.

Goh Cheng Wei

SENIOR ENGINEER
EDUCATOR · SYSTEMS THINKER

CONTACT

- gohc0047@gmail.com
- (+65) 96813552
- Singapore

EDUCATION

MSc Embedded Systems
Nanyang Technological Univ.
2010 — 2014

BEng (Hons) Electrical & Electronics Engineering
Nanyang Technological Univ.

CERTIFICATIONS

- › Adv. Certificate in Technical Education Pedagogy (ACTP)
- › Adv. Certificate in Learning & Performance — IAL (ACLP)
- › Machine Learning — Coursera / Stanford University

SKILLS

// hardware

`Circuit Design` `AutoCAD`
`ESD Testing` `Oscilloscope` `PLC`
`ATEX Sensors`

// firmware

`C Language` `PIC MCU` `UART/SPI`
`MPLABX` `Arduino`

// protocols & iot

`RS485 MODBUS` `VDSL` `BMS/IoT`
`Ethernet`

// soft skills

`Technical Writing` `Pedagogy`
`Stakeholder Mgmt`

LANGUAGES

English	Native
Chinese	Native

Goh Cheng Wei

SENIOR CUSTOMER SOLUTION ENGINEER · EDUCATOR · SYSTEMS THINKER

16+	5	160+	2
// YEARS_EXP	// COMPANIES	// LIFTS_MANAGED	// POSTGRAD_DEG

Rare polymath profile spanning embedded systems firmware depth (PIC microcontrollers, C, UART/SPI/I2C), pedagogy credentials (ITE Lecturer, IAL-certified), and regional client-facing technical solutions experience (KONE SEA). 16 years across research, design engineering, elevator industry management, technical education, and smart building IoT integration. Bilingual in English and Chinese. Seeking Senior Engineer, Engineering Manager, Regional Technical Lead, or Head of Technical Training roles in Singapore or SEA.

// EXPERIENCE

KONE Elevator Singapore `ELEVATOR · IOT · SEA`

Senior Customer Solution Engineer · Oct 2023 — Present · Singapore

- Technical solutions lead for elevator/escalator systems across the SEA region, bridging customer requirements with KONE engineering capabilities
- Led DCS (Door Control System) solutioning and commissioning for major Singapore government and commercial projects
- Statutory board project: technical oversight of 160+ lifts, coordinating directly with LTA and BCA regulatory bodies
- Managed BMS and IoT integration across multi-building smart developments; interface with architects, M&E consultants, and contractors

Institute of Technical Education (ITE) `EDUCATION · E&E`

Lecturer / Engineer · Nov 2020 — Aug 2023 · Singapore

- Taught electrical and electronics engineering modules: circuit theory, digital electronics, embedded systems
- Designed laboratory exercises and assessment rubrics aligned with industry standards; mentored students in Arduino, RPi, PCB design
- Obtained ACTP and ACLP (IAL) pedagogy certifications during tenure — qualified to train adult learners at tertiary level

Chevalier Singapore Holdings `ELEVATOR · OPS`

Assistant Manager · Aug 2015 — Oct 2020 · Singapore

- Led tender preparation and technical proposal writing for lift/escalator projects; oversaw maintenance contracts across residential and commercial sites
- Coordinated BCA statutory inspections and compliance documentation; supervised field technical teams for fault diagnosis and corrective maintenance

Aceplan Engineering `M&E DESIGN`

Design Engineer · Dec 2014 — Jun 2015 · Singapore

- Prepared AutoCAD electrical drawings and schematics; conducted LV load calculations, cable sizing, and panel design for building services projects
- Coordinated authority submissions for regulatory approval

Energetics Research Institute @ NTU `RESEARCH · FIRMWARE`

Research Associate · Aug 2010 — Dec 2014 · Singapore

- Designed and developed embedded firmware in C for PIC microcontrollers (UART, SPI, I2C protocols); built custom PCBs for ATEX-rated sensor data acquisition
- Conducted ESD testing and EMC compliance validation; completed MSc in Embedded Systems concurrently during this period