

GOH CHENG WEI

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Singaporean Nationality



Summary of Qualification

- Strong technical writing, presentation and analytical ability with high competency in Chinese and English.
- **MSc** (Embedded Systems) and **Honors Degree** (Electrical & Electronics Engineering) from Nanyang Technological University, Singapore
- **Advanced Certificate in Learning & Performance** from Institute for Adult Learning
- Machine Learning certification from Coursera – Stanford University
- **Autocad** for drafting of layout, electrical single line diagram and control circuit diagram/schematics.
- **MPLABX** IDE suite from MICROCHIP to develop software for microcontrollers to perform automation.
- **Octave V5.2** software to implement various Machine Learning Algorithms (Neural Network) by applying Linear Algebra matrix operations.

Work Experience

Career Summary

- **Experience in elevator and related industry, able to perform training and teaching**
- **Experience in Electrical & Electronic Design, research in product enhancement, C Program coding for embedded system and project management**
- **Leadership role in high value major Projects and system integration**

Senior Customer Solution Engineer, KONE Elevator Singapore, Oct 2023 – Present

- Define solution offering for Destination Control System, Elevator Supervisory and Control System, Turnstile, Cloud services products, High level Access control Integration API, Integration to 3rd party BMS, robots and LAN networking System.
- Technical consultation, competency training, development and assessment for Southeast Asia region.

Lecturer/Engineer, Institute of Technical Education, Nov 2020 – Aug 2023

- Teaching Electrical Control and Basic Electronics Module at NITEC and Diploma level in Vertical Transport Technology course. Awarded Advanced Certificate in Technical Education Pedagogy, won establishment and commendation award.
- Monitoring and supervision of students, creation of new teaching materials, exam papers and assessment of students. Video Editing skills to create instructional video with Microsoft Clipchamp.
- Coding of Arduino Hardware for integration with Bluetooth, Arduino Cloud for IOT Home Automation Light application and Lift Maintenance application.
- Setting up of Ethernet/VDSL networking for site wide content management of digital displays in lift cars.

Work Experience

- Commissioning and testing of Digital Supervisory Panel and level indicator display for lift systems
- Commissioning and testing of PLC controlled Air Ventilation Module with blower motor, air damper, explosive atmosphere ATEX certified pressure sensor/transmitter and temperature sensor/transmitter in marine vessels
- Experienced in customer service, relationship management

Assistant Manager, Chevalier Singapore Holdings Pte Ltd, Aug 2015 – Oct 2020

- Responsible for project specific design and development of electrical distribution board, program source code and microcontroller based electronic control circuit for residential and industrial elevator applications.
- Development of RS485 MODBUS communication protocol, firmware and new proposal of deploying IOT technology for predictive maintenance of elevators.
- Designed successful system algorithm to retrofit lift with microcontroller circuit which enabled lift to carry 'robotic' passengers and automated vehicles.
- Lead Engineering team for onsite troubleshooting of inverter drive power electronics hardware with Fluke Digital Oscilloscope.
- Strong in definition of project scope, objectives, on time execution of plans to fulfill contractual requirement. Proven excellence in project documentation by creating and maintaining comprehensive, high quality diagrams, Autocad schematics drawings, calculation and reports.
- Decision maker in the selection and integration of electrical and electronic parts for use in modern elevators.
- Independently completed budget and electrical parts BOM preparation for major statutory board project of 160 lifts.
- Good hands on experience in using Infor LN ERP inventory management software
- Able to interact and foster close relationships with both vendor and in house staff to resolve project requirements.

Reason for leaving: Found new employment

Design Engineer, Aceplan Engineering Pte Ltd Dec 2014 - June 2015

- Design of autotransformer, start-delta, reversible, dual speed AC motor starter circuits for marine vessel HVAC operations.

Reason for leaving: Opportunity for job with focus on electrical engineering scope

Research Associate, Energetics Research Institute@NTU Aug 2010 - Dec 2014

- Design and developed PC communicable UART electronic circuit and C language firmware for microchip PIC microcontroller to implement pulse generator and frequency counter.
- Setting customized Temperature shock/Humidity/Altitude cycling Environmental Chambers. Proposed design changes to electrical logic control circuit for reliability and safety enhancement.
- Setup the first customized design 25kV Electro Static Discharge (ESD) Testing System and integration to High Speed Imaging System and Agilent Power Supply