

Bong Chong Hiang

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<https://bong033.github.io/portfolio/>

Summary

11 years in the IT industry:

During this period, I have excelled in various supporting roles, developing a keen ability to **troubleshoot** issues **systematically** and **efficiently**. My accumulated work-experiences has enabled me to learn and adapt quickly to new technologies and processes, ensuring **minimal downtime** and **optimal performance** at the workplace.

3 years in the Engineering industry:

Here, I have diversified my expertise by contributing in both product development as well as production-support roles. This experience has broadened my skillsets, allowing me to understand and apply my knowledge and skills in engineering projects, and contributing to their success

In addition to my professional experience, I am proactively enhancing my skills and competencies through online learning. Most recently I acquired the skills and knowledge in **full stack development** conducted by Temasek Polytechnic. Having undergone rigorous training and contributing extensively to the development of a capstone project in **JavaScript**, **Java** and **Spring Boot**. I am enthusiastic and better-prepared to embark on a career in web and internet application development.

SKILLS

Programming Languages: Cobol, Pascal, C++, Basic, Node Red,
HTML, CSS, JavaScript, ReactJS,
Databases: MySQL, PostgreSQL
Diagnostic Tools: CLI

RECENT ACCOMPLISHMENT

Power Monitoring Solutions — *Node Red, MySQL*

Dashboard to: -

- Display real time data for current, voltage, power etc.
- Display historical data for current, voltage, power etc.
- Calculate total cost for selected duration period.

LANGUAGES

SPEAKS: English | Mandarin

WRITES: English

EXPERIENCE

Temasek Polytechnic — Junior Full Stack Developer (Professional Development)

July 2024 - November 2024

- **Technical skills** acquired include HTML, CSS, JavaScript, Bootstrap, Git version control using Git and GitHub, Java, Spring Boot, MySQL and ReactJS.

(Portfolio) <https://bong033.github.io/portfolio/>

Precision Motion Control Pte Ltd — Assistant Application Engineer

August 2021 - February 2024

- **Guide** customers in troubleshooting Schneider product issues, such as connectivity and configuration via Modbus TCP/RTU, OPC UA.
- **Develop** and **debug** demo/Schneider **software testing** on IEC 61131/61499 (Schneider PLC/HMI programming).
- **Proactively** participate in **evaluating** new products and **emerging technologies**.
- **Developed** training **documentation** on PLC programming for external customers.
- **Spearheaded** the development of a software solution for Power Monitoring Devices using Java, Node-Red, MySQL and Schneider Application Software.

Anglo-Sima Janitorial Supplies Pte Ltd — Robotics Engineer

March 2021 - July 2021

- **Demonstrate** new **deployment** and **troubleshooting** for Autonomous Cleaning Robot.
- **Develop** and refine mapping solutions .
- **Execute** path planning using Teach & Follow/Auto Cover.
- **Analyze** and **interpret** data from 2D/3D lidar and ultrasonic sensors.

Robotics Automation Centre in Excellence — (Professional Development)

September 2020 - March 2021

- **Design** basic part models and assemblies using Solidworks.
- **Implement** and **optimize** rotary motor and direct drive linear motor.
- **Evaluate** a wide range of bearings, including deep groove, air and angular contact bearings.
- **Employ** Strategic Thinking, Design Thinking and SCRUM methodologies.
- **Simulate** basic factory operations using Visual Component 4.2.
- **Utilize** XYZ slicer for Additive Manufacturing applications.
- **Program** and **configure** PLCs with Universal Robot/Hanwha via Raspberry Pi.

Talariax Pte Ltd - Singapore — Technical Support Executive

July 2019 - April 2020

- **Configure** and **deploy** SMS Gateway systems.
- **Install** and **integrate** POC/Rail mounting using SMTP, SNMP Trap, Syslog, ICMP protocol.
- **Conduct** hardware refreshes and **migrate** data from EOL appliances.
- **Maintain** systems through patching and updates..
- **Diagnose** and **resolve** network connectivity issues using advanced **diagnostic tools**.
- **Document** processes and **report** findings comprehensively.

Freelancer — Transcriber

March 2006 to July 2019

Getronics Solutions (S) Pte Ltd — System Engineer

March 1998 to March 2006

Bridge Information System — Field Service Engineer

May 1996 to June 1997

Fujitsu Singapore Limited — Customer Engineer

June 1994 to May 1996

Maxtor Peripherals (S) Pte Ltd — Engineering Assistant

June 1990 to June 1994

Hewlett Packard Singapore (Pte) Ltd — Quality Technician

June 1989 to June 1990

PROFESSIONAL / INDUSTRY CERTIFICATE

Temasek Polytechnic

Professional Certification in Full Stack Developer

October 2024

NTUC LEARNINGHUB PTE LTD

NICF – MTA Windows Server Administration Fundamentals (PCP) (SF)

NICF – MTA Security Fundamentals (PCP) (SF)

NICF – MTA Networking Fundamentals (PCP) (SF)

NICF – Linux Command Line and Shell Scripting (PCP) (SF)

NICF – Cisco CCNA Routing & Switching Part 1 (CCENT, ICND1) (PCP) (SF)

NICF – Cisco CCNA Routing & Switching Part 2 (CCENT, ICND2) (PCP) (SF)

December 2019

EDUCATION

Central Queensland University — Degree of Bachelor in Computing

(C++)

March 1998

Informatics Computer School — NCC Diploma in Computer Studies

(Cobol, Pascal)

December 1993

Singapore Technical Institute — ITC Electronic Engineering

June 1987