**EDUCATION**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Nanyang Technological University (NTU)** Singapore  
School of Electrical and Electronic Engineering Aug 2015 – Jul 2018

* Bachelor of Engineering, Honours, Electrical and Electronic Engineering
* Specialisation: Electrical and Systems Engineering

**Relevant Coursework:** Circuit Analysis | Physics Foundation for Electrical & Electronic Engineering | Engineering Mathematics I and II | Semiconductor Fundamentals | Engineering Electromagnetics | Electrical Devices and Machines | Power systems and Protection | Data Structures & Algorithms | Signals & Systems | Analog Electronics | Digital Electronics | Microprocessors | Power Engineering Design| Power System Analysis & Control | Power Electronics & Drives | Design of Clean Energy Systems | Modern Distribution Systems with Renewable Resources

**Singapore Polytechnic (SP)**  Singapore  
School of Electrical and Electronic Engineering Apr 2010 – Mar 2013

* Diploma in Electrical and Electronic Engineering
* Specialisation: Biomedical and Business

**Relevant Coursework:** CADD | Principles of Electrical & Electronics Engineering I & II | Engineering Mathematics | Introduction to Biomedical Engineering | Data Communication System | Analog Communication System| Microcontroller Applications | Biomedical Signal Processing & Analysis | Medical Informatics and Telemedicine | Medical Imaging & Image Processing

**ACADEMIC PROJECTS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**NTU Final Year Project:**   Aug 2017 – May 2018 **Induction Motor Control Using Indirect Field Oriented Control (FOC)**

* Analyse and understand the indirect FOC scheme.
* Implement necessary control algorithms using Matlab and Simulink.
* Verify and evaluate the performance of the motor control system.
* Research and implement additional features to improve the performance of induction motor control.

**NTU EEE Design and Innovation Project:** Aug 2016 – Dec 2016  
**Water-Loaded Frequency-Reconfigurable Rectenna**

* Worked in a team of 9 members for 4 months.
* Integrated a water-loaded U-slot patch antenna and rectifier circuit to light up LED.
* Used High Frequency Structurer Simulator (HFSS) software to construct antenna with calculated dimensions to attain best bandwidth and efficiency.
* Designed Rectifier circuit to receive signal from antenna to be amplified and produce a constant DC voltage to light up the LED.
* Acquired 900MHz and 1.8GHz frequencies which is changeable by adjusting the water level height.

**SP Final Year Project:** Apr 2012-Mar 2013  
**Enteral Feed Dispenser**

* Worked together with mechanical students in a combined project to make unique vending machine.
* Designed to help improve the current feeding system of stroke patients in hospitals.
* Developed the prototype that has interface and uses a barcode scanner.
* Used MPLAB to program the microcontroller to control servo motors which control the mechanism inside.
* Used LabVIEW to record the patient information inside the system automatically upon dispensing feed.

**INTERNSHIP**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Denso International Asia Pte Ltd – Hardware Engineer** (Intern) Jan 2017-May 2017

* Redesigned and verified digital and analog electronics circuitries with microcontrollers.
* Modify and rework existing circuits to verify the required performance and parameters.
* Performed product evaluations to verify functionality, thermal and EMC performance against product functional specification.
* Analysed and troubleshoot electronic circuitries and provide countermeasures.
* Created test reports and all evaluation related documentation.

**Quantum Automation Pte Ltd- Assistant Engineer** (Intern) Sep 2011 – Oct 2011

* Assisted engineer in handling Integrated Building Management System (IBMS) related work.
* Helped monitor and control several systems including air condition system and electrical system.
* Supported the maintenance team when performing testing and troubleshooting.

**WORK EXPERIENCE\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Gardens by the Bay – Garden Cruiser** Mar 2013 - Sep 2013

* Interacted with the tourist and guide them around the garden.
* Provided pertinent information of the main attractions of the garden.
* Communicated and planned together with team members in handling the most crowded locations and busiest period.

**ST Engineering Aerospace – Asst Aircraft Engineer (Electrical/Avionics)** Dec 2018 - Present

* Performed aircraft maintenance tasks such as repair, modification and functional tests.
* Inspect, troubleshoot and repair aircraft and all associated aircraft systems.
* Inspect finished work, carry out operational/functional tests, and rectify aircraft defects.
* Ensured all maintenance activities comply with regulatory requirements and company policies and procedures.
* Collaborated with other maintenance and engineering personnel to resolve complex aircraft issues.
* Read engineering drawings to perform modification or troubleshooting,
* Assisted in forecasting of manpower, spares and equipment needs.
* Supervised, control and managed staff under his charge.

**ACHIEVEMENTS / AWARDS / CERTIFICATES**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

* Director’s Honour Roll 2011
* Certificate in Applied Psychology 2013
* Member of Champion Team for Design and Innovation Project Competition 2016

**SKILLS / COMPETENCIES / INTERESTS**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Language Skills**:

* English (Fluent)
* Malay (Fluent)

**Software Application Skills:**

* MS Word, Excel, Power Point, Outlook (Proficient)
* SAP (Intermediate)

**Software Programming Skills:**

* C Language (Intermediate)
* Assembly Language (Intermediate)
* VBA (Elementary)
* LabVIEW (Elementary)

**Interests:**

* Playing Sports
* Gaining new skills and knowledge
* Strategic games
* Spending time with family and friends