

EDUCATION

Nanyang Technological University (NTU) Aug 2021 – **June 2024** (Expected)

- **Bachelor of Engineering (Electrical and Electronic Engineering)**
- Specialization: **Electrical and Systems Engineering (Electrical Power and Energy)**
- Relevant Modules: (1) *Power System Analysis and Control* (2) *Power Engineering Design* (3) *Power Apparatus and Protection* (4) *Design of Clean Energy Systems* (5) *Modern Distribution Systems with Renewable Sources*

Nanyang Polytechnic (NYP) Apr 2017 – Mar 2020

- **Diploma in Electrical Engineering with Eco-Design**
- Specialization: **Power Systems Engineering**
- Relevant Modules: (1) *Smart Grid* (2) *Solar Photovoltaic Systems* (3) *Eco-Design and Sustainable System Development* (4) *Power Transmission and Distribution*

ACADEMIC PROJECTS

NTU Final Year Project: ***Integrated 3D Inductors*** Aug 2023 – **May 2024** (Expected)

- Design 3D integrated inductors for high-frequency applications
- Investigate novel inductor design topologies
- Verification of inductance through electromagnetic field solver simulation software, Ansys HFSS
- Implementation of inductors through soldering, 3D printing and fabricating

NTU Design and Innovation Project: ***Technological Aids for the Visually Handicapped and/or Elderly*** (Team of 7) Jan 2023 – Apr 2023

- Designed a one-room flat using Sweet Home 3D software for creating 3D models of interior spaces
- Successfully built a model of the prototype with foam boards to simulate the floor mapping
- Drew a schematic diagram for the miniaturized electronic wheelchair's circuit
- Demonstrated prototype's navigation and manoeuvrability without collisions or errors

NYP Final Year Project: ***Development of Anti-Theft Locking System for PMD*** May 2019 – Aug 2019

- Developed a locking system to secure bicycles and e-scooters effectively in response to high rise theft
- Designed and implemented an RFID-based locking mechanism using Radio Frequency Identification (RFID) technology and Arduino software
- Collaboration with the Singapore Police Force (SPF) to reduce theft rate

INTERNSHIP EXPERIENCE

Schneider Electric Singapore Pte Ltd – Project Electrical Engineering Intern June 2022 – Dec 2022

- Assisted Electrical Engineer and Project Manager to streamline engineering processes
- Involved in the project execution of a sizable project, SPPA 66kV Dunearn Substation which includes Schneider Electric's 22kV medium voltage switchgear, WSB
- Inspection of Factory Acceptance Test (FAT) at Elsteel Factory, and Site Acceptance Test (SAT), with respect to customer requirements and standards
- Contributed to internal auditing for project reports (e.g. Bill of Materials (BOM) list, inspection, milestones, and defects found across site)
- Designed Power Point (PPT) slides for contractor training on Project Safety Review
- Conducted reverse mentoring with six other interns from different departments on how to manage customer first experience

Collins Aerospace (Hamilton Sundstrand Pacific Aerospace Pte Ltd)

Mar 2019 – May 2019

Special Process Department Intern

- Supported supervisor in managing department's inventory using First In, First Out (FIFO) method
- Collaborated with other interns from different departments to carry out Real Time Problem Resolution (RTPR) and addressed identified problems faced by employees
- Gained insight into logistics management using System Applications and Products in Data Processing (SAP) software
- Documented blueprints for On-The-Job Training (OJT)

WORK EXPERIENCE

CPF Board – Temp Admin Assistant (Part-Timer)

Dec 2020 – June 2021

- Routed emails and processed cases for Retirement Withdrawals Department (RWD)
- Updated customer database (e.g. personal data)

DKSH Management Pte Ltd – Temp TPI Tester/Admin (Part-Timer)

Oct 2020 – Nov 2020

- Assisted the Group Governance, Risk and Compliance (GRC) department in conducting Third Parties Intermediaries (TPI) risk assessment, screening, and due diligence process
- Documented data entry and cleared backlogs

SCHOTT Singapore Pte Ltd – Sorting Inspector (Part-Timer)

June 2020 – Sep 2020

- Packed and sorted parts for production
- Checked for quality and defects

Japan Home Pte Ltd – Retail Sales Assistant (Part-Timer)

Dec 2016 – Apr 2017

- Handled cash register transactions efficiently
- Unloaded deliveries and replenished stocks
- Resolved customer complaints promptly

LEADERSHIP / CO-CURRICULAR ACTIVITIES

NYP Chinese Orchestra Club, Vice President

Apr 2017 – Mar 2018

- Led 2 logistics subcommittee
- Coordinated with vendors and staff to ensure well-organized and efficient logistics, from reserving venues and equipment to managing budgets and schedules
- Performed at the NYPCO-NYPSO joint orchestra concert 2018, Latitude
- Participated in the Taiwan Outreach Program and evaluated students' performances
- Incorporated games and camp activities for freshmen to foster interaction and bonding

Peer Tutoring, Tutor

Apr 2018 – Aug 2018

- Mentored tutees in academic studies

SKILLS / HOBBIES

- **Languages:** Fluent in English and Chinese (Mandarin)
- **Software Programming:** C++, Visual Studio, MATLAB, Python and Arduino (Elementary)
- **Software Applications:** Ansys HFSS, Altium Designer, LabVIEW and AutoCAD (Elementary)
- **Equipment:** Oscilloscope, Multimeter, Solar Power Meter,
- **Interests:** Playing musical instruments (e.g. Piano, Sheng), Film Music, Fashion, Yoga