# EDUCATION

National University of Singapore **Aug 2022 - Present**

Bachelor of Engineering (Electrical Engineering), Honours

* Current Cumulative Average Point (CAP): 5.0/5.0
* Expected Date of Graduation: Jul 2026
* Relevant modules completed: Programming Methodology (Python)

# WORK AND INTERNSHIP EXPERIENCES

# Prometheus-Communications PTE LTD, Software Engineer Nov 2021 - Present

* Designed and assembled electronic components such as Raspberry Pi, Arduino and sensors to build PromSatellite (PromSAT) MK3.
* Debugged and improved PromCORE’s software and system efficiency in Docker environment.
* Rectified server error for NCS to recover the Environment Monitoring System (EMS).
* Directed PromSAT MK4 project to create an all-in-one monitoring device, reducing overall cost by 40%.
* Communicated with Reliance and NCS to ensure installation of EMS sites.
* Revised company’s PrometheusDash (Grafana) with newer dashboards to log errors and analyse data trends.

# Singapore Armed Forces, Infantry Specialist (National Service) Sep 2020 - Nov 2021

* Commanded main assault Platoon 8 Section 1 as Section Commander and Platoon 8 as Platoon Sergeant.
* Conducted trainings and delivered 85% platoon IPPT Gold and REDCON1 during evaluations.
* Coordinated company’s staff aids to ensure necessary mission planning resources.
* Awarded twice Company Best Commander by officer in command for outstanding service and leadership.

### PROJECTS AND ACTIVITIES

**Climate Hackathon’22****May 2022 - Jun 2022**

* Developed a database server and dashboards to track and analyse emissions from shipping and it’s environmental and biodiversity impacts.
* Developed using PostgreSQL, Pandas, PowerBI and Microsoft Azure.

### CO-CURRICULAR ACTIVITIES AND VOLUNTEER EXPERIENCES

**Member, The Boys’ Brigade 19th Singapore Company****Jan 2014 - Present**

* Developed Boys in terms of character, leadership and achieve the Object of the brigade.
* Headed company as Company Sergeant Major in 2016 and Chairman of Primer’s Committee in 2018.
* Executed and coordinated BB Cares and BBSG annually since 2016 to help the needy in Singapore.

**Member, Hwa Chong Junior College Interact Club****Mar 2018 - May 2019**

* Volunteered weekly visit for elderly living in Enuos.
* Spearheaded Hunger Trials’19 as Project Manager and participated Hunger Trials’18 as Team Leader.
* Participated in Project Bisrama’18 to interact and help foreign workers in Singapore.

**Chairman, Project Espirit 2018****Apr 2018 - Jun 2019**

* Collaborated with Evangel Family church to provide free tuition for primary children from low-income families.

**Organising Committee Member, Project Happiness****Aug 2018 - Jun 2019**

* Joined with Happy People Helping People to interact and serve independently living elderly in Singapore.
* Partnered with Resort World Sentosa Singapore to organize an outing for the elderly at Gardens By The Bay.
* Raised funds and necessities for elderly.

**Chairman, Overseas Community Initiated Project in China****Mar 2018 - Aug 2018**

* Led peers and seniors raise funds and education materials for orphans in Hainan.
* Discussed with villagers in Hainan to understand and resolve existing problems.
* Organised outing and amazing race for children from low-income families in Singapore.

**ADDITIONAL INFORMATION**

* Fluent in English and Chinese (spoken and written), and basic Hokkien (spoken)
* Programming Langugae: BASH, Python, Java, C++, Docker, SQL
* Cloud Computing: Amazon Web Services, Azure Cloud Computing
* Monitoring and Visualisation: Prometheus.io, Grafana, PowerBI