

## EDUCATION

### National University of Singapore

Aug 2023 - May 2026

#### Bachelor of Engineering (Computer Engineering), Honours

- NUS Merit Scholarship Recipient
- University Town College Programme (Residential College 4)
- Expected Date of Graduation: May 2026

### Ngee Ann Polytechnic

Apr 2018 - Apr 2021

#### Diploma with Merit (Engineering Science)

- Grade Point Average (GPA): 3.986 / 4.0
- Diploma Plus Programme (Certificate in Advanced Engineering Mathematics)
- Overseas Immersion Programme (1 Month) at Nanjing University of Science & Technology
- Awards: Lien Ying Chow Donor Scholarship, Faculty Merit Award, Dean's List (2019, 2020)
- Relevant course work: Object Oriented Programming (OOP), Data Structures and Algorithms, Microcontroller Programming, Digital Electronic Circuits, Computer Vision, Digital Signal Processing

## CO-CURRICULAR ACTIVITIES

- Hornet 9.0 (NUS Bumblebee Training Programme): Perception/Localisation Software Lead
- NUS.AI (NUS AI Interest Group)

## LEADERSHIP EXPERIENCE

### Singapore Armed Forces, Platoon Sergeant

Jun 2022 - May 2023

- Collaborated with team of 8-10 with planning and execution of day to day training for company.
- Managed morale, training standards, and operational readiness of company of 50+ personnel.
- Liaised with external organisation for weekly equipment maintenance to maintain serviceability.

### Ngee Ann Polytechnic Archery Club, Team Captain

Apr 2019 - Dec 2021

- Planned and executed regular training alongside with 2 coaches to build up fitness competency of club members.
- Directed internal events such as annual bonding and training camp for 40+ club members.
- Collaborated with committee of 8 members to organise and execute Polytechnic-ITE Archery Championships 2019.
- Attained Half Colours Award - Archery for achieving 2nd in Polytechnic-ITE Championships.

## WORK EXPERIENCE

### The Archery Academy, Part Time Coach

Feb 2021 - May 2021

- Facilitated beginner lessons for customers of all ages to teach archery fundamentals.
- Managed inventory tracking and helped with sales of archery equipment.

## PROJECTS

### Intelligent Transport System to aid AV Testing

Apr 2020 - Oct 2020

- Communicated with 2 project supervisors to design a traffic optimisation system to improve testing of autonomous vehicles on campus roads.
- Implemented wireless/bluetooth-low-energy communication between traffic lights and autonomous vehicles using ESP32 (micro-controller) to lower energy consumption of system.
- Implemented car detection using tinyYOLO machine learning model.

### Autonomous Robot Car

Oct 2019 - Feb 2020

- Developed teaching materials (assembly manuals and programming manuals) to educate future students on process of building an autonomous robot car.
- Created CAD drawings using Autodesk Inventor to illustrate assembly instructions. An instructional video was made to show assembly of robot and served as additional teaching materials.
- Assembled robot frame, interfaced electrical components and sensors before using Robot Operating System (ROS) to program robot software.

## SKILLS & INTERESTS

- English (Native), Chinese (Basic)
- Technical: C/C++, JavaScript, HTML, CSS, Python, Node.js, Bootstrap, Express, React.js, Robot Operating Software (ROS), Computer Vision
- Interests: Badminton, Table Tennis, Olympic Archery