RYAN TEO

96505460 • teodeliangryan@u.nus.edu • www.linkedin.com/in/ryan-teo

EDUCATION

National University of Singapore   **Aug 2022 - Present**
Bachelor of Engineering (Honours)
- Major in Computer Engineering, with 2nd major in Innovation & Design
- IEEE-HKN NUS Member
- Recipient of the NUS Merit Scholarship
- GPA: 4.94/5.00
- Expected Date of Graduation: May 2026

Victoria Junior College (VJC)   **Jan 2018 - Dec 2019**
GCE A-Level
- Recipient of the Victoria-Cedar Alliance Alumni Scholarship
- Achieved 4 As for H2 Mathematics, H2 Physics, H2 Chemistry and H2 Economics (90 Rank Points)

EXPERIENCE

A*STAR - Agency for Science, Technology and Research,   **Jan 2022 - Jun 2022**
Project Intern
- Devised a robot distance controller using Python and ROS, optimising collection of data sets by autonomous vehicles
- Utilized SolidWorks and AutoCAD to design mechanical components for the robot
- Partnered with a team of 4 NIPSEA engineers, extending expertise in ROS and Rviz to assist with detection of various paint coatings by autonomous vehicles

SAF - Singapore Armed Forces, Platoon Sergeant   **Aug 2020 - Dec 2021**
- Led and supervised a platoon of 10 men in military operations
- Coordinated across 6 departments to support the battalion's day-to-day operations
- Maintained the personnel information of the company of over 80 men
- Leveraged Microsoft Excel to create a shared programme to track and update all soldiers' training status within the battalion of over 350 men

PROJECTS

Project PackBack (Independent Sustainability Initiative)   **Sep 2023 - Present**
- Leading a dynamic team of 5 to launch 'PackBack', an initiative blending RFID technology with personal containers, inspiring eco-conscious dining amongst Singaporeans with rewards application
- Demonstrating technical proficiency by overseeing RFID integration, CAD design, and software development

STEER Application (Independent Software Development   **May 2023 - Present**
Project)
- Collaborating within a team of 6 to develop a mobile application, used as a sharing economy platform to empower rural communities in the region of Mukteshwar, Uttarakhand

- Leveraged on React Native, Typescript and Firebase technologies to build the application

NUS Orbital (Independent Software Development Project)   **May 2023 - Aug 2023**
- Built a gamified lifestyle mobile application in a team of 2, employing Figma for mockup creation, and React Native and Firebase technologies for development
- Ensured application reliability and performance through rigorous unit testing with Jest, and managed version control with Git and Github

Fundamentals of Systems Design   **Jan 2023 - Apr 2023**
- Utilized CAD and electronic skills to create a dispenser system and a payload carrier for a restaurant server robot
- Employed software skills, including ROS2 and SLAM expertise, to provide autonomous function to the server robot for navigation and delivery

EXTRA CURRICULAR ACTIVITIES

**Director of Events (House Committee), NUS Residential   Jan 2023 - Present
College 4**
- Managed a team of 12 members to plan and execute hostel events for over 140 students
- Coordinated with 4 other departments to ensure the seamless operation of day-to-day activities within the student hostel

Operations Executive, NUS Engineering Science Student Wing   Aug 2022 - Jan 2023
- Collaborated with a team of 11 students to plan, organise and execute events for students of the Faculty of Engineering
- Assembled and spearheaded a team of 7 students to organise a University-wide product design competition