

NG ZHI YANG

ROBOTICS & FULL STACK DEV

CONTACT



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<https://zhiyang-tech.github.io/Portfolio/>



BEDOK NORTH STREET 4, 461187

TOP SKILLS

- Full-Stack Development
- ROS2
- PLC
- Troubleshooting
- Critical Thinking
- Teamwork

CERTIFICATION

- Full-Stack Web Developer
- User Experience
- React Essential Training
- Understanding ChatGPT
- Data Analysis in Google Sheets
- Intermediate Python
- Intro to Google Sheets
- Machine Learning
- Prompt Engineering
- Research Methods
- Intro to Python
- Intro to SQL

EDUCATION

Singapore Polytechnic



Diploma in Electrical & Electronics Engineering (Robotics)



April 2023 to April 2026

Manjusri Secondary School



GCE O LEVELS



Jan 2019 to DEC 2022

WORK EXPERIENCE

Flight Simulator Intern

Airbus Asia Training Centre (AATC)

Mar 2025 - Jan 2026

- Developed NOTAM3.0, a full-stack web development that reduces paper usage by up to 80% and consists of multiple automated workflows to improve efficiency and accuracy of simulator operations.
- Created an Application which predicts when a simulator component would fail, ensuring that the parts are used to their fullest
- Assisted in configuring Full Flight Simulators (FFS) and Airbus Pilot Trainers (APT).
- Assisted in different types of maintenance, such as preventive & corrective maintenance in both Full Flight Simulators (FFS) and Airbus Pilot Trainers (APT).
- Assisted engineers and technicians in troubleshooting simulator systems, including electrical, motion, visual, and interface components, to ensure uninterrupted training sessions throughout the day.

Student Chairman

RoboCup Singapore

OCT 2024 - Apr 2025

- Led the student organizing team and oversaw the planning and execution of a National Robotics Competition (RoboCup Singapore Open 2025).
- Worked closely with RoboCup Singapore staff, university, and polytechnic student volunteers to ensure smooth operations during RoboCup events.
- Coordinated with over 100 student volunteers during RoboCup Singapore Open 2025
- Enhanced team productivity by implementing efficient systems and strategies for all roles during events.

Student Co-Chair

RoboCup Singapore

APR 2024 - OCT 2024

- Led the Events Operating Team during a National Robotics Competition (RoboCup Singapore Open 2024).
- Enhanced team productivity by implementing efficient systems and strategies during RoboCup events.
- Streamlined workflows by analyzing operations and introducing improvements, boosting overall performance and efficiency between events.

ACHIEVEMENTS & AWARDS

- 🏆 SMORPHI Imaginary Challenge 2025 (Senior)
- 🏆 SMORPHI Robotics Challenge 2025 (Senior)
- 🏆 National Robotics Competition 2024 (SMORPHI autonomous)
- 🏆 National Robotics Competition 2024 (SMORPHI pilot)
- 🏆 Optimal Coder Category of the SMORPHI Imaginary Robotics Challenge (senior)
- 🏆 SMORPHI Robotics design challenge(Senior)