

Logadarrshini Kandaraj

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Personal Summary

I am a Robotics Systems Engineering student with foundational knowledge in IT and cybersecurity. Actively developing skills in ROS, STM32 and system integration through academic projects and hands-on learning. Passionate about building secure, intelligent robotic systems and gaining real world engineering experience.

Summary of Key Skills

- Programming skills in C++, C, Python and SPIN.
- Basic 3D modelling, assembly, drawing using SolidWorks.
- Exposure to Systems Engineering principles.
- Handling Microcontrollers such as STM32 and Propeller 1.
- Effective team member who provides insightful opinions and solutions.
- Hands-on experience with basic breadboard circuit prototyping, including wiring, assembly, and setup of electronic components.
- A critical thinker and active listener.
- Proficient in English, spoken and written.

Work & Project Experience

Systems Engineering Project 1
Singapore Institute of Technology

May 2025 – July 2025

Autonomous Robot Navigation Using ROS

- Build robot navigation system using ROS, SLAM and RTAB-Map.
- Implemented waypoint navigation and obstacle avoidance.
- Integrated sensors and tuned cost maps for stable movement.

Robot Pixy2 Vision Project
Singapore Institute of Technology

Jan 2025 – March 2025

Mecanum wheeled robot colour tracking

- Build a mecanum-wheeled robot capable of tracking and following a specific colour signature in real time using Pixy2 camera
- Programmed motor control logic to follow the detected target smoothly.
- Tuned movement behaviour for stable omni-directional navigation

IT Intern
Appzgate Solutions Pte Ltd

Sept 2022 – Jan 2023

- Implemented SEO & SEM strategies to improve website visibility for clients.
- Introduced DevOps methodologies to the Development team to streamline processes and expedite software deployment.
- Assist the Senior Developer and Team in all stages of the SDLC.
- Maintained and updated data in information systems and databases.

- Assisted in troubleshooting and testing developed websites and provided suggestions and solutions to improve user experience.
- Marketed companies' products to potential clients at events such as FHA - HoReCa and Chillax Asia.

Final Year Project
Republic Polytechnic

Apr 2022 - Aug 2022

Building a CI/CD pipeline for a simple web application

- Involved in the release and deployment stages of the DevOps life cycle.
- Used platforms and tools such as GitHub, Docker, Jenkins, and AWS Cloud.
- Configured Docker images to host the web application.
- Configured Jenkins scripts to create a CI/CD pipeline that links Docker and other tools used by the team and to automate the pipeline hosted in AWS Cloud instances.

Education

Bachelor of Engineering with Honours in Robotics Systems
Singapore Institute of Technology (SIT)

2024 - Present

- Programming in C, C++, SPIN, Python
- MCU: Propeller1, STM32
- SolidWorks
- Basic Systems Engineering Concepts
- ROS 1 & ROS 2

Specialist Diploma in Cybersecurity Practice
Ngee Ann Polytechnic

2023 – 2024

- Networking & IT Infrastructure
- Windows & Linux Server Administration
- Cybersecurity Fundamentals
- Cloud Systems Administration
- Ethical Hacking & Penetration Testing
- Cyber Forensics Investigation
- Cybersecurity Operations
- Cybersecurity Risk & Compliance

Diploma in Information Technology
Republic Polytechnic

2020 – May 2023

- Objected Oriented Programming in Java
- Internetworking & Internetworking Security
- IT Security & Management
- Software Development Process
- Database systems
- Web Application Development in .NET
- Ethical Hacking
- IT Service Operations With AI
- Data Centre and Cloud Management
- IT Service Delivery

Achievements & Awards

- Edusave Good Progress Award **2022**
- National Youth Achievement Award - Bronze Medal **10 Jan 2019**