

CHIN JIA MING

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EDUCATION

Type of Degree September 2022
to Current
Singapore Institute of Technology

- Currently pursuing BEng (Hons) in Robotic systems
- Expected Graduation April 2026

Temasek Polytechnic April 2017 to
March 2020

- Diploma in Electronics

Projects

Singapore Institute of Technology (Robotic Car) September 2022
to November
2022

- Fabrication of Matel parts for the Lite Kit (robotic car)
- Coding in SPIN language
- Using Parallax Propeller P1 32810
- Program the robotic car be controlled by a Z-Bee controller. The robotic car can also stop when cliff or obstacle.

Singapore Institute of Technology (Robotic Car 2) January 2023 to
March 2023

- Using STM32F303RE Microcontroller together with the Parallax Propeller P1 #2810 to control a object tracking robotic car using the PixyCam camera.
- The objective is to track and follow a object autonomously, while carrying a payload (torch light)
- Design and fabricate a torch light holder that pan and has a quick release feature with limited resources

Singapore Institute of Technology (ROS Robotic car) May 2023 to
July 2023

- Fabricating physical arena for the Robotic system (LIMO) to run
- Coding in Python programming language and ROS (Robotic Operating System)
- Program using Python and ROS to allow the LIMO to be able to navigate autonomously to different zones in the arena

Singapore Institute of Technology (Automating logistic warehouse) January 2024 to
April 2024

- Working with industrial partner (Bollere Logistic) to come up with solutions to solve one of their problem statements.
- Applied System Engineering to come up with solutions based on the needs and requirements derived from the problem statement.
- Applied Project Management skills to manage the entire project timeline and resources.
- Create simulations using Visual Component and ROS2 Gazebo
- Built a prototype as a proof of concept for our solutions, which includes using a turtlebot3 waffle_pi as an AMR using ROS2 (Humble)

Singapore Institute of Technology (Food printing)

May 2024 to
July 2024

- Finding the needs and problem space for different domains in which a food printing technology can solve or help (Domain analysis)
- Planning to create a binder jetting 3D printer prototype using Evebot print pen.

Temasek Polytechnic (Major Project)

- Design a motor and controlled circuit for junior's project work.

EXPERIENCE

Senserbot Pte Ltd.

September 2019
to March 2020

- Intern at Senserbot during for my poly internship.
- Work as a deployment engineer. Deploying and testing of library robotic system
- Training users how to use the robotic system
- Create documentation for the robotic system

ARMY (National Service)

- After BMT, posted to Nee Soon Camp as a Transport Operator
- Posted to HQGDS as ASA due to injury. In charge of call up of NSman for ICT.
- Received a outstanding on my testimonny.

Singapore Institute of Technology (Student Coach & Student Helper)

March 2023 to
Present

- Help to train other students how to use Lab equipments like 3D printers, Laser cutter, table saws, etc.
- Manning mechanical labs

SKILLS

- Programming languages: C, C++, Python and SPIN
- Software: CAD: Solidworks, and Fusion 360, Microsoft Excel, Powerpoint and Words
- ROS (noetic) using Python
- ROS2 (Humble) using Python
- Coaching skills
- Prototyping