TAN CHOON YI

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Portfolio: https://glaiden.github.io/Portfolio/

# WORK EXPERIENCE

## MATERIAL HANDLER

AB SCIEX

DEC 2021 – JUNE 2022

Mainly handle assembly line stock keeping that involves day to day stock of all stations, purchasing and supermarket management. In addition, I was also involved in supermarket rearrangements and assembly of simple parts.

## INTERNSHIP

Sivantos

May 2018 – Aug 2018

Worked under senior engineers handling new product testing, involved in product quality inspection, and drafting FMEA documents and Validation documents.

# EDUCATION

## DIPLOMA IN MECHATRONICS ENGINEERING

Nanyang polytechnic

2019

1.Specialised in Biomedical in 3rd year

2.Edusave merit bursary Year of award: 2018

3.Edusave certificate of academic achievement Year of award: 2018

## Bachelor’s Degree in Robotics System Engineering

Singapore Institute of Technology

Currently studying

# Army Achievements

* Singapore armed forces Letter of Commendation (incident)
* SBAB best servicemen 2021(Service Support)

# SKILLS

* C programming • Ubuntu
* C++ programming • CAD: Inventor
* Python • CAD: SolidWorks
* ROS1 • CAD: fusion 369
* ROS2 • 3D printing
* Embedded systems
* GitHub
* Milling
* Turning

# Projects

**FINAL YEAR PROJECT**

Design and develop a walking aid for weak or stroke patients.

February 2018 – May 2018

Tasked to design a walking frame with built-in seat using existing walking frames to allow user to sit for a brief rest while being outside. Project involves a lot of schedule planning to ensure tasks are given just enough time to complete and long usage of CAD: inventor with 3D printing to design and make a working prototype.

**University: Project 1**

Lite kit Assembly and programming

August 2022 – November 2022

A module in university that involves assembly and programming of a 4 wheeled differential drive robotic car with Ultrasonic sensors and Time of Flight sensors. Car is programmed using SPIN programming on the parallax board and C language on the STM32 NUCLEO-F103RB to communicate with the parallax board via UART.

**University: Project 2**

Lite Kit with signature tracking

Jan 2023 – Mar 2023

A module that builds upon project 1. The Lite kit will be fitted with Mechanum wheels and a pixie camera, Programming will still be in SPIN programming for the parallax board and C++ language for the STM32 NUCLEO-F103RB, however Pixie camera will be communicating with the STM32 MCU which is programmed to with signature tracking algorithm while parallax board will be solely in charge of the lite kit’s movements.

**University: Project 3**

LIMO bot using ROS1

May 2023 – August 2023

A university module that introduces ROS1 and LIMO bot to us, project requires students to work in a group of 5 to fabricate fixed themed obstacles and accessing LIMO bot’s navigation algorithm to edit parameters that affects the robot’s decision making.