Ker **Chin Tian**

Final Year Computer Engineering Undergraduate

Aspiring robotics engineer looking to contribute to a meaningful cause with my technical expertise

Contact

- +65 9023 6533
- kerchintian@gmail.com
- linkedin.com/in/kerchintian/
- kerct.github.io

Education

2019 - 2023
Computer Engineering (BEng with Honours), Robotics Specialisation
National University of Singapore
CAP: 4.85 / 5
NUS Merit Scholarship
Dean's List

2022
Exchange - Computer Engineering
University of Toronto
NASA Exchange Scholarship

2013 - 2018
NUS High School Diploma (High Distinction)
NUS High School of Mathematics & Science
CAP: 4.8 / 5
Outstanding Student Award - Achievement, Leadership, Service

Technologies

- Raspberry Pi, Arduino
- Python, Java, C
- ARM Cortex-M, Verilog

Skills

- Teamwork
- Dependability
- Problem solving

Experience

June 2021 - Nov 2021
Zimplistic Pte Ltd (Rotimatic)
Embedded Engineering Intern

- Developed an integrated test system to automate the testing of Rotimatic's subassemblies using PyQt and Firebase on a Raspberry Pi interfaced with a router, printer, scanner, camera and a physical switch
- Designed and implemented test scripts for Rotimatic's subassemblies and full assembly using Python's unit test framework
- Built a Modbus test tool to send and receive Rotimatic commands
- Provided technical support to other teams by debugging and fixing the machines

Mar 2019 - May 2019
Ministry of Home Affairs Singapore
Intern

- Reviewed video analytics platforms and surveillance systems around the world to understand industry standards
- Developed real-time face recognition mobile apps using different models and evaluated their performance to determine their suitability in Body-Worn Cameras for uniformed officers
- Assessed the accuracy of Singapore's surveillance platform in detecting various attributes to highlight areas that need improvement or were done well

Jan 2019 - Feb 2019
Open Government Products, GovTech Singapore
Software Engineering Intern

Collaborated with engineers, designers, and managers to develop:
- A webpage and a phone app to digitalise identity cards in Singapore
- A webpage to inform donors of the food levels in food banks and a Telegram bot to match drivers to food delivery requests

Feb 2017 - Dec 2017 (Part-Time)
DSO National Laboratories
Research Intern

Designed a faceted reflectarray antenna to bridge the gap in the existing literature and achieved overall higher efficiencies as compared to similarly sized flat reflectarray antennas

Sept 2016 - Dec 2016 (Part-Time)
Defence Science and Technology Agency
Intern

Developed a Virtual Reality (VR) simulation with HTC Vive using Unity3D for players to learn and practise the necessary emergency procedures when a fire breaks out onboard a ship