Lim Yi Shen

Email: yishen98@gmail.com Mobile: 88122998
Github: github.com/BruttherJOE

EDUCATION

Singapore University of Technology and Design (SUTD)   **Singapore**
- Bachelor of Engineering (Engineering of Product Development), Honours   **May 2019 to Present**
- Expected Date of Graduation: August 2022

River Valley High School   **Singapore**
- GCE 'A' Levels, (Physics, Economics, Mathematics, History)   **2014 – 2016**

WORK EXPERIENCES

Continental AG (Internship)   **Jun 2020 – Sep 2020**
Automotive firm, Robotics Engineer position
- Worked on the development of an autonomous last mile delivery robot – Corriere LM
- Implemented a Kalman Filter (UKF) and wrote unit tests for testing odometry and pose estimation

Systra, MVA (Internship)   **Dec 2016 – Feb 2017**
Consultancy firm, Civil Engineer position
- Involvement in overseas and local projects such as the Planning of MRT3 Klang Valley Circle Line in Malaysia, and Tuas MRT project in Singapore
- Usage of SIDRA and algorithms to simulate traffic flow and calculate lane saturation
- Take on-site pictures of traffic flow / carpark lane saturation and presentation of data

ACADEMIC RESEARCH PROJECTS

LED Cube (IEEE SUTD LED Cube Challenge 2019)   **July 2019**
• Spearheaded the development of the hardware as well as software in a team of 4 in the building of a LED Cube.
• Won first place in a SUTD competition.

Line Tracing Robot (SOAR Challenge)   **Sep 2019**
• Led the creation of the robot in a team of 4.
• Modelled, laser cut, and assembled the physical parts for the robot, to go to payload, receive a payload and return to the start point.
• Won first place in a SUTD competition.

Academic Design Project (PORTA)   **Sep – Dec 2019**
• Designed and built a physical smart door in a team of 5 aimed to simplify online healthcare services to elderly
• Installed a GUI on the door using Raspberry Pi and a screen which the elderly can interact with.
• GUI also creates a pop-up reminder screen when the motion sensor (PIC sensor) detects the elderly for reminders.

UTOP (Undergraduate Teaching Opportunities Programme) Fundamentals of Electronics   **May – Aug 2019**
• Taught fellow cohort mates about microcontrollers and basic electronics, as well as basic circuitry and soldering

IEEEXtreme 13.0 Programming Competition   **Oct 2019**
• Represented school in competition that hosted 9400 participants, in a team of 3.

JESSICA Robotic Arm   **Oct 2019 - Present**
• Leader of JESSICA team, a robotic arm designed to make and serve coffee autonomously.
• Designed and used EMG and flex sensors to make robotic arm mimic human arm movement, with 3D modelled and printed parts in addition to autonomously serving coffee.

CO-CURRICULAR ACTIVITIES

SOAR (SUTD Organisation of Autonomous Robotics)
• Project Leader   **2019 – Present**

IEEE (Institute of Electrical and Electronics Engineers)   **2019 - Present**

Mindsports Club   **2014 - 2016**
• President

ADDITIONAL INFORMATION

- Skills (basic): Python, ROS, CAD, Adobe Creative Suite, Arduino, RPI, Linux shell
- Technical: Research, Report Writing, Presentation