

SEI YEU CHEW

79 Heald Place, Rusholme, Manchester M14 4AQ

📞 07444523904

✉️ zach.csy01@gmail.com

🌐 www.linkedin.com/in/seiyeuchew01

Education

University of Manchester

Sep. 2020 – June 2024

Bachelor of Engineering in Mechatronic Engineering - GPA: 3.2/4.3

Manchester, UK

Skills

Technical skills: PowerPoint, Word, Excel, Power BI, Outlook, Jira, MS Project, SolidWorks, Altium Designer, Simulink, Jira

Programming Languages: Python, C, C++, HTML, CSS, MATLAB, PLC

Languages: English, Mandarin/Chinese, Bahasa Malay

Awards/ Courses: Couch to Coder Data Science Python Bootcamp by BrightNetwork, Learn Java by Codecademy

Experience

Genentech System Sdn Bhd

June 2023 – September 2023

Automation Engineer Intern

Selangor, Malaysia

- Designed an automated welding station to automatically perform a set of units on a client's automobile production line in development in order decreasing production time.
- Incorporated Power BI and PowerPoint to aggregate automation data results into an organized format for stakeholder presentation purposes.
- Accelerated project timelines by 19% through collaboration with senior developers, designing and developing firmware bots using software such as SolidWorks and Simulink.
- Assisted in maintaining and troubleshooting plant machinery that use logic controllers through Omron and Mitsubishi PLC, resulting in individual traffic light project implemented in the plant.

Flowtrend Engineering Sdn Bhd

June 2020 – May 2023

Technical Sales Engineer

Selangor, Malaysia

- Developed B2B Chinese and Malay-speaking client relationships, expanding the industrial canned pump product reach by adding 5 new accounts as part of the regional sales team, exceeding annual sales quota by 20%.
- Collaborated with client stakeholders from 5 different industrial refinery plants to implement comprehensive installation plans to ensure that they are within requirements, deadlines and budgets.
- Developed and presented comprehensive technical demonstration and documentation, including plant-specific recommendation, third-party training, and project deliverables, utilizing Excel and Word.
- Received returning job offer for the ability to foster relationships in client management, driving timely and effective results.

Projects

Embedded Omnidirectional Heat Sensing Catapult

September 2024

- Designed and developed an Arduino-embedded catapult prototype equipped with motors and sensors to intercept heat signatures within a set proximity to promote technology applications to junior undergraduates.
- Assembled a virtual 3D model by drafting all parts to the same scale using CAD programs such as SolidWorks and mating them with appropriate geometrical constraints to generate a physical prototype.
- Designed and printed prototype circuit board for mixed-signal communication circuits such as motor drive and sensor boards on Altium Designer to be use in the catapult.
- Developed a proportional derivative controller using MATLAB, Simulink and C++ in Visual Studio to move the robot's elevation and rotation using the sensor's data to ensure the robot turns at a precise angle as reliably as possible.

Embedded Autonomous Navigation Vehicle

September 2023

- Collaborated with 5 engineers to design, develop and manufacture a STM32 C++ embedded autonomous vehicle capable of following a white line through track conditions such as elevation and line breaks to earn the best design award during a competition with 40 teams.
- Prepared technical deliverables and written documentation such as drawings for all mechanical and electronic components of the final die assembly, design/progress/assessment reports to document project progress and performed engineering calculations to consider during initial concept design.
- Administered Microsoft Project Management and Jira to prepare GANTT chart schedules to assist in scheduling project activities to coordinate requirements with engineers., completing the project functionalities 2 weeks in advance.