

Muhie Al Haimus

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Education

Queen Mary University of London

London, United Kingdom

Sep. 2023 - Present

- **Overview:** Currently, pursuing a Bachelor's degree in Robotics Engineering with a strong academic performance on track for first-class honors.
- **Society President, Queen Mary Electronics Society:** As the founding President of the Electronics Society, I currently lead over 80 members in two key robotics competitions: IMechE UAS and Unibots. I also manage applying for grants and funding to ensure the society is properly financed.
- **Undergraduate Researcher:** Focused on researching the dynamics behind yo-yo tricks and producing an educational resource that guides students on how to learn Python from complete scratch. I have presented my works at an undergraduate research conference and hope to continue dissemination at other events.
- **Course Representative:** advocating for student peers, by collecting feedback for modules and communicating this feedback to the Directors of Education department meetings.

The College of Richard Collyer

Horsham, United Kingdom

Sep. 2021 - 2023

- **Qualifications:**
 - A-level Mathematics: A
 - A-Level Computer Science: A
 - A-level Physics: B
 - AS-Level Further Mathematics: C
- Throughout my time at college, I competed in several robotics competitions. Most notably representing the UK at the First Global Challenge in Geneva Switzerland.

Warden Park Academy Trust

Cuckfield, United Kingdom

Sep. 2016 - 2021

- During my secondary studies, I gained ten GCSE qualifications including Mathematics (6) and English Language and Literature (7,6)

Experience

Demonstrator, Queen Mary University London

London, United Kingdom

Sep. 2024 - Present

- Assisted in explaining programming concepts in Java to first-year undergraduate students. For the module ECS401U Procedural Programming.

Retail Team Member Fatface

Gatwick Airport, United Kingdom

Fixed Term: June - Sep. 2024

- In a brief tenure at Fatface, quickly integrated into a team of thirty to support the process of closing a retail store as part of the company's strategic downsizing efforts.

Volunteering

Student Robotics

Horsham, United Kingdom

Sep. 2023 - Present

- An active volunteer supporting the Student Robotics organisation. Recently, assisted in the national competition at Southampton University in April 2024. Worked with a team of five to effectively organise the competitors throughout the four-day competition.

Projects

Python Guide for Engineers: A guide designed to teach complete beginners how to code from scratch, it was piloted to over 450 first-year engineering undergraduates at my University. It will be iterated on for future years in collaboration with two other students.

Meta Car Parks: A full-stack web application and mobile app that was designed as a car parking booking system. It also used a camera with OCR alongside a Raspberry Pi Pico to open a car park gate. This was produced for my A-level computer science coursework, which received an A* grade.

Student Robotics 2023: I created the movement system and odometry system for a fully autonomous robot using OpenCV and fiducial marker detection. It also contained a Web interface where you could monitor an estimate of the position of the robot in real-time this used Euler angles and other basic dynamics principles.

Skills

Python, Java, Latex, HTML, CSS, JS, CAD, Git, EDA and PCB design, Embedded Systems, Linux, Problem-solving, Leadership, Risk Assessments, Group Management, Communication, Project Management, Time Management.