

# Mahmood El-Mahalawy

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## EDUCATION

**University of Birmingham** (MEng Mechanical Engineering) **Sep 2021 - Present**

- First Year Average: 1<sup>st</sup> Class - 73%
- Second Year Average: 1<sup>st</sup> Class - 71%

**The Nottingham Emmanuel School Sixth Form** **Sep 2019 – July 2021**

- A-Levels (3): Maths (A), Biology (A\*), Physics (A)

**The Nottingham Emmanuel School** **Sep 2014 – July 2019**

- GCSEs (11): Arabic (A\*), Further Maths (A), Biology (9), Physics (8), Chemistry (8), Maths (8)

## WORK EXPERIENCE

**University of Nottingham | Summer Internship** **Summer 2023**

- Researched and conducted a techno-economic analysis of different zero & low carbon fuels for the next generation of heavy-duty internal combustion engines.
- Gained hands-on experience with IC engine testing in a research environment at the University.

**Royal Mail | Mail Sorter** **April 2020 - Present**

- Successfully balanced both university studies and part-time employment
- Learned to work in a fast paced environment and agile to business needs
- Conducting checks of each item, adhering to instructions in a logical manner
- Improved communication and teamwork skills during busier seasons of the year

**GoStudent | Tutor** **Sep 2022 - Present**

- Demonstrated expertise in maths and science topics, aiding students in understanding complex concepts
- Balanced part-time employment along my university studies

## ACHIEVMENTS AND EXTRACURRICULAR ACTIVITIES

**Coding | Web Development**

- Presented expertise in web development by creating multiple websites, including a portfolio website that showcases a diverse range of skills and accomplishments
- Dedication to continuous learning and improving coding skills, frequently practicing in spare time and collaborating on both individual and group projects..
- Passionate about coding, consistently looking for new chances to improve and create digital solutions.

**Duke of Edinburgh | Bronze Award** **Sep 2017 - June 2018**

- Planned and completed a 3 day expedition in a group which improved teamwork skills
- Invested time learning Spanish independently as a skill so that it could help me in my studies and allow me to communicate to a wider range of people

**University of Cambridge | HE+ Award** **Sep 2019 - March 2020**

- Attained a place on this highly regarded development programme with aims to increase progression to top universities and improve academic achievement
- Conducted research and created a presentation on a topic in particle physics which helped build my confidence in speaking to large groups

**Basketball | Team Member**

- Balanced engineering coursework and exams with regular basketball practice, highlighting strong organisational skills
- Regular member of a competitive basketball team, improving teamwork skills and effective communication

## SKILLS

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- **Coding:**  
Skilled in languages such as Python, HTML, CSS, JavaScript, SQL and C; consistently practice and improve these in free time by working on individual and group projects
- **MATLAB:**  
Used MATLAB's functionalities to enhance design workflows and achieve project goals
- **Fusion 360:**  
Experienced in Fusion 360 and incorporate it into projects every semester to demonstrate my design capabilities
- **Design Projects:**  
Demonstrated proficiency in engineering design through the successful completion of multiple projects spanning over the past two years, showcasing adaptability in both individual and group settings. Design projects include:
  - Designing a miniature 2-stroke IC engine to be used in a UAV for exploration.
  - Designing a water desalination plant in Uruguay to provide enough water for a quarter of the population.
  - Designing and building a wooden bridge using truss analysis that successfully withstood over 1000N downward force.