Muhammad Yahya Hussain

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Education:

City, University of London **BEng Mechanical Engineering (with placement year) 2020-2024**

Key modules: Fluid Mechanics, Mechatronics, Thermodynamics, Mathematics and Design

Leyton Sixth Form College **2018-2020**

- A-Level Mathematics (C) Chemistry (B) Physics (D)

London East Academy Secondary School **2013-2018**

- 10 GCSE's grade (9-5) including Maths and English

Work experience:

Other work experience:

Muslim Aid, Whitechapel, E1 **Voluntary Humanitarian Worker** **June -August 2018**

- Organised a team and led the production of a charity event.
- Performed administrative duties and greeted visitors and used communication skills to explain the work the company does to bring in more donors.

K4 Security **Steward** **June – April 2022**

- Stewarded at events such as the Euros 2020. At these events I conversed well with attendees and was able to focus on their needs.
- Collaborated efficiently with other team members to maintain a swiftly run event.

Extracurricular activities:

- Climbed mount Snowden in 2018 and raised £5000 for orphans.
- Play football with a team in tournaments to raise money for a charity.
- Worked with the Islamic society team to organise a football tournament and raised money to build water fountains in Uganda.

Projects and skills:

Engineering For People: Sanitation:

- Worked in partnership with my team to design dry toilets for the people in Lobitos Peru. This lavatory would allow people to use the toilets and reuse the water sanitarily.
- Sketched a design for this toilet and researched on how to make the idea of a dry toilet possible.
- Researched on what materials could be used and how to make it as cheap as possible.

Wearable Device Project:

- Assisted my group members in designing a heart rate monitor using an Arduino microcontroller and a pulse sensor.
- Outlined a simplistic design of a knee strap allowing the heartrate monitor to be in a place it can sense the pulse (behind the knee) while also looking innovative.
- Utilized software such as AutoCAD, to design the knee strap, and Proteus, to program the Arduino board to work well with the pulse sensor.

Waterproof Enclosure for Thermal Management of Electric Vehicles:

- Operated software such as Solidworks and ANSYS to design the waterproof enclosure and ensure that it was optimal for the car it was being designed for.
- Researched on what materials could be utilized for this enclosure and made sure the material was environmentally friendly and cost efficient.

Other Skills:

- Problem solving: Completed and achieved Bronze in the UK Maths challenge 2018.
- Programming skills: Efficient with programming platforms such as MATLAB.