






# Mohammed Alkatib

## Mechanical Engineer

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 Doha, Qatar

 LinkedIn Profile

 Date of Birth: 16/01/2002

 Nationality: Iraqi

 Bachelor's degree  
Mechanical Engineering  
University of Greenwich  
(London, United Kingdom)

I have experience working with engineers of various disciplines at university and peers of different career backgrounds in the United Kingdom. Motivated to produce tasks with attention to the smallest details. Undertook several design projects, utilising concept development and modeling techniques to satisfy product specification. Received First Class grade for final year project on the applications of Big Data and Artificial Intelligence in design and manufacturing, where key principles such as Generative Design, Topology Optimisation, Machine Learning and Digital Twins all work together to provide engineers with tools to perform digital design operations.

**[Click here to view my professional portfolio](#)**

## Experience

**2022-09 - 2023-05**

### Final Year Project (1st class grade)

*Applications of Big Data and Artificial Intelligence in Design and Manufacturing*

- Investigated case studies and applications of enabling technologies related to Smart Manufacturing and Industry 4.0
- Demonstrated Topology Optimisation feature in SolidWorks that relates to the applications of AI in Design with alloy steel part
- Constructed conceptual framework that explains essential variables that contribute to success in the design and manufacturing industries

**2022-09 - 2023-03**

### Team member

*The Earthshot Prize 2022-2023*

- Automated Rammed Earth Construction System
- Revolutionising the way rammed earth operates, streamlining the process and removing the need for intensive labour and formwork
- 3D CAD models, technical drawings, step-by-step animation video and logo, representing the team and its vision
- Made physical prototype of to-be rammed earth block, demonstrating a loamy soil configuration typical in most parts of England and Scotland

**2020-10 - 2021-03**

**Team Leader**

*Design for People Engineering Challenge 2020-2021*

- Worked in a team to create water distribution system as well as a renewable energy system for Engineering Without Borders UK
- This project was aimed to help two towns in north of Peru, Lobitos and Piedritas
- Team was among 75 teams out of 1,660 teams that qualified for grand finals in UK and Ireland

**2023-08 - 2023-09**

**Event Traffic Marshal**

*CTM Event Traffic Management*

- Directed civilian and vehicle traffic at the 2023 Eastern Electrics Festival in Waltham Abbey, as well as the main campus of the Royal Holloway University in Egham
- Provided directions and assistance for event goers
- Maintained communication and coordination with team using a radio

**07-2023**

**Visitor Assistant**

*Geerings Print Limited*

- Operated three visitor desks at Kent County Show 2023
- Gave directions and help to visitors
- Was responsible for three staff members

**06-2023**

**Event Assistant**

*UK University Search*

- Ran fair in Tottenham Hotspur Stadium with 19 other colleagues
- Stewarding students, teachers and exhibitors
- Managed entrances to conference venue for seminar talks

## **Skills**

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- Computer-Aided Design (models, technical drawings, and animations in Solidworks & Autodesk Fusion 360 software)
- Programming (MATLAB)
- Microsoft 365 (Word, PowerPoint, Excel, Projects etc.) and Windows O.S
- Product Prototyping (including sketching using both Isometric Projection and Orthographic Projection to satisfy specification)
- Communication (9/9 in IELTS speaking test and experience working and volunteering as an event organiser)
- Video/ photo editing (Sony Vegas Pro, Camtasia Studio, Adobe Photoshop, Adobe After Effects, & Adobe Media Encoder)

## Volunteering

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05-2023

### Event Coordinator

*British Red Cross*

- Provided enthusiastic support for participants in RideLondon 2023 event by holding posters and signs
- Coordinated reception of 36 exhausted race participants from Tudor Watch at a British Red Cross site in central London
- Organised and prepared refreshments, an open buffet and massage area to reward participants and their families
- This was in coordination with Tudor Watch and Rolex

## Education

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2020-09 – 2023-04

### BEng Hons: Mechanical Engineering (2.1 Grade)

*University of Greenwich - London*

2020-01 - 2020-08

### University Foundation Programme in Engineering

*International Foundation Group - London*

2007-09 - 2019-03

### High School Diploma

*The English Modern School - Doha*

## Languages

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▪ English

▪ Arabic