

# Mughees Asif



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https://github.com/mughees-asif

http://

https://bymughees.com/

## EDUCATION

### BEng. Aerospace Engineering

(Predicted: First)

Queen Mary,  
University of London  
Sept. '18 – Jun. '21

- *Award-winning Course Representative*: Peer-elected; represent students' opinions regularly at Student Staff Liaison Committee meeting. Received Contribution and Engagement Awards.
- *Science and Engineering Faculty Student Representative*: Promoted to represent the feedback of the full department comprising of  $\approx 3000$  students at senior university committee meetings.
- *Student Ambassador*: Meeting prospective students; explaining course structure and leading campus tours.
- *President of the Chess Society*: Advertising the society's presence; increased paying members from 40 to 62 (55% increase).

### Foundation Degree (Distinction)

Uni. of Huddersfield  
Sept. '17 – Jun '18

- *The Engineering Departmental Award for the Best Student*: Awarded for excellent engagement and academic achievements (*Achieved: First Class / 91% overall*) including 100% in all mathematics examinations.
- *Team leader in design project*: CAD project involving manufacture of a rubber-propelled boat using additive layer manufacturing of ABS, using FDM (90%).

### GCSEs

Wakefield

- 10 A-Cs including A in Physics, A in English Language, B in Mathematics, and 'Distinction' in I.T.
- Member of the football, basketball, and cricket team.

## EXPERIENCE

### Mobile Developer

astric, Mar. – Jul. '20

- Used React Native based on advanced JavaScript (ES6+) to build a cross-platform mobile application.
- Deployed the company website using GatsbyJS.

### Systems Engineer

QMUL Airspace  
Nov. '19 – Mar. '20

- Research and implementation of suitable manufacturing processes, including CNC and FDM.
- Collaborated to develop an autonomous flight system.

### Software Developer

Formula Student  
Oct. '18 – Jun. '20

- Co-operated with the Head of Electronics to develop a telemetry system, enabling two times more data available for the team including throttle response and power output.
- Individually, designed the GUI in JavaFX to increase functionality and usability.
- Created a paddle-shift logic algorithm in C++ to implement into the ECU.

### Brand Ambassador

Aug. '19 – Mar. '20

- *MATLAB & Simulink Student Ambassador*: Holding different events at university, such as Neural Network configurations and Data Visualisation, to highlight the MathWorks suite.

## SCHOLARSHIPS

### Royal Academy of Engineering

- *Sir Ralph Robins Scholarship*: Selected as 1 of 3 students in the UK. The award recognises excellence in engineering from under-privileged and under-represented backgrounds.
- *Engineering Leaders Scholarship*: 1 out of 30 students in UK. The award recognises undergraduates who have the potential to become leaders in engineering and who are able to act as role models for future engineers.

## PROJECTS

### Technical

(source code for all mentioned projects is available on GitHub)

- **Kotlin**:
  - Created Android open-source plug&play templates including a YouTube video player and Flickr Browser clone.
- **Java**:
  - Used JavaFX to make a telemetry system GUI; designed the backend by implementing real-time data receipt and logging capabilities.
  - Familiar with concurrency, multi-threading, databases, and network programming.
- **JavaScript (ES6+)**:
  - Built different projects using React & GatsbyJS, in conjunction with, Node.js + ExpressJS to make single, multi or hybrid web applications.
- **Python**:
  - Machine learning models (Linear SVC and RidgeRegression) used on classification problems (datasets from Kaggle).
  - TensorFlow library used on a computer vision problem of identifying dog breeds.
- Familiar with the fundamentals of **AWS** and **Google Firebase**.

## MISCELLANEOUS

### Communication

### Interests

- Fluent in three languages; English, Urdu, and Punjabi.
- Reading literature related to philosophy such as Marcus Aurelius – Meditations, classics including Alexander Dumas – The Count of Monte Cristo and cosmology for example Stephen Hawking – A Brief History of Time.
- Staying active through a variety of sports including winning an indoor rowing challenge.
- Staying updated on programming best practises through email newsletters such as MIT Tech Review and TL;DR.