

# Mughees Asif

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## EDUCATION

### BEng. Aerospace Engineering

Predicted: **First**  
Queen Mary, UoL  
Sept. '18 – Jun. '21

### Foundation in Engineering

Achieved: **Distinction**  
University of Huddersfield  
Sept. '17 – Jun '18

### GCSEs

Outwood Grange  
Academy, Wakefield

## EXPERIENCE

### Mobile App Developer

astric, Mar. '20 – Current

### Systems Engineer

Nov. '19 – Mar. '20

### Senior Electronics

#### Team-member

Formula Student  
Oct. '18 – Jun. '20

### Brand Ambassador

Aug. '19 – Mar. '20

### Spring Programme

Schroders, Apr. '19

## SCHOLARSHIPS

### Royal Academy of Engineering

## PROJECTS

### Technical

(projects available on  
GitHub)

## ADDITIONAL INFORMATION

### Communication

### Interests

- *Science and Engineering Faculty Student Representative*: Represent the department at senior university committee meetings.
- *Award-winning Course Representative*: Peer-elected; represent students' opinions regularly at Student Staff Liaison Committee meetings; engagement with fellow students on every level to provide an appropriate feedback platform. Received Contribution and Gold Award, runner-up in the Course Rep of the Year, Engagement and Collaboration categories.
- *Student Ambassador*: Meeting future students, local and international; explaining course structure and leading campus tours. Representation of the university at external events such as Teen Tech 2019 – Emirates Stadium and course taster days.
- *Mayors Entrepreneur Award 2019*: Team leader for sustainability initiative (Solar-powered Air Purifier) developed for a university module; awarded an A for the design brief and project specification; reached second last stage in the competition.
- *President of the Chess Society*: Leadership skill development; allocating appropriate job roles and understanding the dynamics of a successful team; advertising the society's presence; increased paying members from 40 to 62 (55% increase).
- *The Departmental Award for the Best Student*: Awarded for excellent engagement and academic achievements (*Achieved: First Class / 91% overall*) including 100% in all mathematics examinations.
- *Course Representative*: Undertook leadership of cohort, resolved academic issues such as timetabling and availability of resources; relayed important information between staff and students.
- *Team leader in design project*: CAD project involving manufacture of a rubber-propelled boat using additive layer manufacturing of ABS, using FDM (90%).
- 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.

- Co-founded a start-up aimed at connecting local businesses.
- Used React Native to build a cross-platform app with the UI designed using Galio.
- Participating in the IMechE Unmanned Aerial Systems yearly challenge through a university-funded project.
- Collaborated to develop an autonomous flight system.
- Co-operated with the Head of Electronics to develop a Graphical User Interface (GUI) using Processing3 for a telemetry system, enabling two times more data available for the team including throttle response and power output.
- Individually, redesigned the GUI in JavaFX to increase functionality and usability.
- Created a paddle-shift logic algorithm in C++ to implement into the ECU.
- Recognising team objectives, working under a budget, observing policies and working towards deadlines.
- *MATLAB & Simulink Student Ambassador*: Holding different events at university, such as Neural Network configurations and Data Visualisation, to highlight the full range of executable functions by the MathWorks suite.
- Participated in a meeting with the Head of Portfolio Solutions; introduced to the growing impact of A.I. and Data Insights Technologies; familiarisation with services such as investIQ and the effective use of Data Analytics in the financial sector.

- *Sir Ralph Robins Scholarship*: 1 out of 3 students in UK. The award recognises engineering students 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.

- **Kotlin**:
  - Created 2 Android open-source plug-and-play templates including a calculator and YouTube player.
  - In-progress apps include a Flickr Browser and Task Timer app.
- **Java**:
  - Designed the backend for the GUI for the resident Formula Student team. Implemented data receipt and logging.
  - Familiar with concurrency, multi-threading, databases and network programming.
- **JavaScript**:
  - Built different projects using React + GatsbyJS including a Face Detection app utilising the Clarifai API.
  - Proficient with Node.js + ExpressJS to make single, multi or hybrid web applications. Applied Redux for state-management.
  - Manage a database using PostgreSQL.
- **Python**:
  - Made a Machine Learning Model using Scikit-Learn to predict Heart Disease.

- 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.
- Playing competitive chess; achieved a top three place during a university competition.
- Staying active through a variety of sports including winning an indoor rowing challenge.
- Staying updated on current technology through email newsletters such as MIT Tech Review and TL;DR.