

Mughees Asif

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EDUCATION

BEng. Aerospace Engineering

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

- *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.

Foundation in Engineering

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

GCSEs

Outwood Grange
Academy, Wakefield

EXPERIENCE

Systems Engineer

Nov. '19 – Mar. '20

Senior Electronics

Team-member

Formula Student
Oct. '18 – Ongoing

- 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.
- Rewrote the GUI in JavaFX to increase functionality and usability.
- Created a paddle-shift logic algorithm to implement into the ECU using C.
- 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.
- *The Economist*: Representing the brand at different events; increasing student readership through proactive advertisement.
- 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.

Brand Ambassador

Aug. '19 – Mar. '20

Spring Programme

Schroders, Apr. '19

SCHOLARSHIPS

Royal Academy of Engineering | '20

- *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.

SKILLS

Technical

(* denotes in-progress)

- *Android app development using Kotlin (50+ hours)**: Enrolled in a Kotlin Android Application Development Bootcamp (50+ hours); building on the knowledge gained from the Java Programming Masterclass to develop projects including simulating a YouTube app and Flickr Browser app.
- *Java programming masterclass (75+ hours)*: Fundamentals of Object Orientated Programming (OOP), utilising Java Collections framework and JavaFX; learning concurrency, multi-threading, and network programming. Studying towards gaining the *Oracle Certified Professional: Java SE 11 Certification (1Z0-815)*.
- *Web development (70+ hours)*: Built different projects using React + GatsbyJS including a face detection app utilising the Clarifai API; learnt to host servers using Node.js + Express; built a database using PostgreSQL; using Redux for state-management.
- *Algorithms (Coursera | Princeton University)**: Theoretical understanding of algorithms and data structures.
- *Machine Learning (Coursera | Stanford University)**: Academic insight into ML algorithms.
- Fluent in three languages; English, Urdu and Punjabi. *Learning* Mandarin from the Language Department at the university.

Communication

ADDITIONAL INFORMATION

Interests

- 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.
- Contribute to Open Source projects through GitHub.