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.
- *SEMS StudentVoice Researcher*: Reviewing school handbooks, giving feedback on the school web pages and creating student-led content.
- *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).

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

- *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%); established efficient group dynamics through appropriate task allocation and adhering to deadlines.

GCSEs
Outwood Grange Academy, 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

Android App Development
Dec. '19 – Ongoing

- Enrolled in a Kotlin Android Application Development Bootcamp (6/50+ hours).
- Building on the knowledge gained from the Java Programming Masterclass to develop an understanding of Android Engineering.
- Upcoming projects include simulating a YouTube app, Flickr Browser app and a Task Timer app.

Systems Engineer
Nov. '19 – Ongoing

- Participating in the IMechE Unmanned Aerial Systems yearly challenge through a university-funded project.
- Collaborating to develop an autonomous flight system.

Java Programming Masterclass
Aug. '19 – Ongoing

- Completed 1/3 of the masterclass (45/75+ hours).
- Understood the fundamentals of Object Orientated Programming (OOP); utilising Java Collections framework and JavaFX.
- Progressing towards learning Concurrency, Lambda Expressions, Databases and Network Programming.
- Studying towards gaining the *Oracle Certified Professional: Java SE 11 Developer I Certification* (1Z0-815).

Web Development Bootcamp
Oct. '19 – Dec. '19

- Finished 'The Complete Web Developer Boot Camp in 2020: Zero to Mastery' (35/35+ hours) online bootcamp through Udemy.
- Built different projects using React including a face detection app utilising the Clarifai API.
- Learnt to host servers using NodeJS + ExpressJS; built a database using PostgreSQL to develop a complete understanding of website development.

Senior Electronics Team-member
Formula Student
Oct. '18 – Ongoing

- 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.
- Migrating the GUI to 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.

Brand Ambassador
Aug. '19 - Ongoing

- *The Economist*: Representing the brand at different events; increasing student readership through proactive advertisement.
- *Sanctuary Graduates*: Promoting different workplace opportunities to varying university year groups.

Technology Showcase
J.P. Morgan, Oct. '19

- Introductory talk from a Managing Director in Corporate and Investment Management.
- Extensive networking with employees from different divisions highlighting various job roles.

Spring Programme
Schroders, Apr. '19

- 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 industry.

SKILLS AND ABILITIES

Technical

- Learning advanced data structures and algorithms to improve computer science problem-solving skills.
- Experienced with 3D modelling using SolidWorks and CREO; executing complex functions using MATLAB.

Communication

- Fluent in three languages; English, Urdu and Punjabi. *Learning* Mandarin from the Language Department at the university.

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 five 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.