

Asad Mohiuddin

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Profile

Education

Master's in Chemical Engineering, University of Aberdeen (*Predicted first*) 2015 – 2020

4th Year: Undertaking my Individual Master's Project "Superconducting and Superinsulating nanofluid" requiring me to construct a Transient Heated Wire cell for the testing of liquid and gas mixture thermal conductivities. This year has a strong emphasis for Process Safety and Process Control also more complex courses such as Separation Processes and Biochemical Engineering.

3rd Year: Comprised of advanced courses specialised to Chemical Engineering including Thermodynamics, Fluid Dynamics and Heat, Mass & Momentum Transfer. In addition, a process plant design course assessed on individual and group work. **Grades Achieved: 9 A's.**

1st & 2nd Year: The first two years covered general Engineering, with elements of Chemical, Mechanical, Petroleum and Electrical/Electronics, as well as Civil. Giving a broad introduction to the fundamentals of each Engineering discipline. **Grades Achieved: 14 A's and 2 B's.**

Cults Academy 2009 – 2015

SQA Advanced Highers: Chemistry (A), Biology (B)

SQA Highers: Mathematics (A), Computing (A), Chemistry (A), Biology (A), Physics (A)

Skills

- Ability to take my knowledge on various Engineering disciplines to tackle challenging problems. This is further developed by my Individual Master's Project which requires mechanical and electrical work to design and construct the test cell, as well as fundamental Chemical Engineering to interpret the obtained results.
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IT & Technical

Very proactive programmer, experienced in a wide range of programming languages C/C++, Python and Matlab also programming applications such as microcontrollers. Knowledgeable on circuit design and PCB Design software EAGLE. Through my studies, I have become familiar with Aspen Plus, Aspen hysys, Solid Works, Fusion 360 also proficient use in Microsoft Office Packages.

Problem Solving

My engineering degree encompasses a bunch of problem solving facets, especially when designing a process plant and its intricate components for my individual and group design projects.

Communication

Participating in the NHS Royal Volunteering Service was a valuable experience and has heavily strengthened my confidence and my ability to hold conversations. My university courses have also provided me opportunities to perform oral presentations and written reports to further develop my communication skills.

Teamwork

Working with undergraduate engineers in a research group at Aberdeen University called Skunkworks on innovating projects which often includes computational, design and theoretical challenges.

Work Experience & Volunteering

Demonstrating, University of Aberdeen

2018 – Present

Responsible for:

- Demonstrating for a tutorial class of 200 students by answering students' questions and providing feedback for completed tutorial problems on Heat, Mass & Momentum Transfer.
- There is a wide range of student ability, so it is crucial to effectively communicate with them, as well as offer an exceptional learning environment to every individual for their educational development.

Achievements:

- Received the opportunity to teach for this course as it was one of my much-loved courses in third year and is said to be the most difficult course from all the other engineering courses at the university.
- Being able to stay optimistic in front of such a big class of year 3 and 4 students and confidentiality responding to challenging questions.
- Frequently receiving positive feedback for my assistance in class from the lecturer and individuals.

Skunkworks, University of Aberdeen

2018 – Present

Responsible for:

- Co-founding and promoting a group called Skunkworks with the head lecturer and another student. That works on interesting science projects within the School of Engineering at Aberdeen University.
- Providing guidance and technical help to Engineering students who undertake the projects, as they often have a small background in electronics and programming.

Achievements:

- Working on new areas of research such as the Acoustic Levitator in the university that utilizes high frequency sound waves to trap and move particles.
- Constructed an Acoustic Tracker, a device that triangulates locations of transducers using other transducers.
- Learning electronics and circuit design as well as developing my programming skills.

General Assistant, Aberdeen Garthdee Sainsburys

2015 – 2016

Responsible for:

- Clothing stock replenishment and handling which involves working effectively within a team to make flow changes in the clothing department, as well as providing customer satisfaction.

Achievements:

- Improving sales through fantastic customer service and in depth product knowledge.

NHS Royal Volunteering Service, Aberdeen Royal Infirmary

2014 – 2015

Responsible for:

- Visited a neurosurgical ward for socialising with patients and assisting with their meals. The environment was challenging, as patients suffer from chronic pain along with being away from loved ones.

Achievements:

- It was incredibly difficult to communicate because regularly the patients are withdrawn and confused. But through cautious attempts often managing to get through these barriers, was incredibly rewarding.
- Before enrolling into university, my goal was to pursue a career in medicine. But by discovering new interests and undertaking various work experiences my passion for it had faded.

Interests & Other Achievements

- Listening to debates on philosophy and ethical moral systems, personally these topics are captivating and entertaining.
- Powerlifting and bodybuilding is one of my major hobbies that has been a part of my weekly routine.
- Granted British citizenship and passport in 2012.
- Hold a full UK drivers licences with no penalties.
- Bilingual with fluency in English and my native language Urdu.

References available upon request
