

MOHAMED SALAH

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EDUCATION AND QUALIFICATIONS

University of Bradford **2019 – 2023**
MEng (Hons) Chemical Engineering **Predicted: 1st Class**

- *MEng Advanced Research Project* – development of a Dynamic Fouling Model for a Heat Exchanger – a theoretical dynamic model is to be developed and its accuracy determined by experimental data. Preliminary experiments undertaken using different sensors to determine the known thickness of paint on a pipe, which simulates fouling.
- *BEng Group Project* – Phthalic Anhydride Plant Design – designed a plant to create 100,000 tonnes per year of phthalic anhydride by the oxidation of o-xylene with my individual focus on one of the reactors and control systems.
- *Key Modules (4th Year – current)* – Advanced Research Project; Design Optimisation; Desalination Technology; Upstream Production and Refinery Operations; Materials and Manufacturing Processes.
- *Relevant Modules (various years)* – Y3: Process Design (76%); Y3: Reliability and Safety Engineering (80%); Y2: Further Engineering Maths and Statistics (78%); Y2: Fluid and Particle Mechanics (65%).

Beckfoot Grammar School, Bingley **2012 – 2019**
GCE A Levels: Chemistry (B); Mathematics (B) and Further Mathematics (D)
GCSEs: 14 subjects (A*- C) including Mathematics, English, Chemistry and Physics.

LABORATORY AND TECHNICAL SKILLS

- Good understanding of MATLAB developed at university to help with solving analytical problems and specifically control engineering problems.
- Working knowledge of AutoCAD Plant 3D and basic knowledge of SolidWorks.
- Competent with Aspen HYSYS and Aspen Plus to run simulations and to help consolidate hand calculations.
- Working knowledge of Minitab to help apply statistical tests.
- Reliable, safe laboratory skills gathered throughout university and put into practice in first- and second-year modules, further developing these. Ensuring risk assessments are completed correctly and adhered to.
- Able to handle large and complex mass and energy balances.
- Extremely proficient in Microsoft Office (Excel, Word and PowerPoint). Extensive use within the past six years of Excel to analyse data and results and in Word to write technical reports.

SUMMER EXPERIENCE INTERNSHIP

Sports Turf Research Institute (STRI), Bingley **June – Sept 2020**
Research Student

- Performed different tests on various trials of turf, while also helping to analyse the data.
- Help to set-up and maintain various trials. Applied wear to selected trials and took samples of turf.
- Worked in the lab conducting tests to measure the organic content in different turf samples.
- In September, I was awarded a Summer Experience Special Award for my commitment and effort to STRI. I was entrusted with a large project which lasted for four weeks of the internship.
- Learnt to apply Health & Safety procedures in the workplace.
- Conducted tests on equipment for consumer research companies.
- The experience has given me the opportunity to apply theories learnt at university into practice.

OTHER EMPLOYMENT EXPERIENCE

McDonald's, Bradford Five Lane Ends

Sept 2019 – current

Crew Member (evenings and weekends)

- Worked as part of a team of six in a shift, helping and supporting one another in order to provide excellent customer services (served up to 200 customers per day).
- Given the responsibility to handle and banking of cash of up to £5000 per day.
- Training of new staff, including health & safety and COVID-19 safety measures.

Grange Fisheries, Morley

April – Sept 2019

Preparation Person/Server (Early morning, evening, weekend shifts)

- Prepared potatoes and chipped them for the day's service. Cleaned all preparation areas.
- Prepared condiments, opened for service, took multiple orders, worked efficiently with the fryer to provide a successful service, and cleaned the entire shop floor after a shift.

KEY SKILLS PROFILE AND POSITIONS OF RESPONSIBILITY

Teamwork

- Worked successfully with various teams throughout my previous employment to complete tasks and ensure correct procedures. I have been a part of a football club for the past eleven years, mostly as Captain of a team, leading and motivating team members.

Planning and Organising

- Working two jobs at once in the summer of 2019 required good organising to ensure I was punctual for both. Completing my A levels and university also means that a lot of deadlines appear at the same time, hence effective prioritisation and contingency plans is crucial!

Analytical and Problem Solving

- Key skill on my course at university, constantly analysing data to produce the correct results. Using real world data often leads to problems that need to be solved in a correct and methodical way for a desired result.

Initiative

- Throughout coming across these problems, I have used my own initiative to influence others in various projects at university but also proactively look for other options to contribute too.

Positions of Responsibility

- Media and General Secretary of University of Bradford Football Club – responsible for all social media for the club interacting with members, supporters and sponsors. Also responsible for looking after the equipment and ensure it is stored safely and in good working order.
- Class Representative for my course – liaising and negotiating with Academic Staff on behalf of my peers. Contribute actively during the Staff and Students Liaison Committee (SSLC) meetings.

LEISURE INTERESTS

- Played amateur football for my local club for eight years and captained them for seven; now playing and representing the University Football Team for the past three years (when government safety measures have allowed).
- A keen Liverpool Football Club supporter and like to keep up to date with all levels of football.
- Enjoy the outdoors including hiking and mountain biking and like to socialise with friends regularly.

REFEREES

Dr A.L. Smith; Senior Lecturer in Mechanical and Process Engineering, University of Bradford, BD7 1DP
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