

## MOHAMED SALAH

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### EDUCATION AND QUALIFICATIONS

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**University of Bradford** **2015 – 2019**  
**MEng (Hons) Chemical Engineering** **Predicted: 1<sup>st</sup> 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 (4<sup>th</sup> 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** **2008 – 2015**  
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

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- 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

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**Sports Turf Research Institute (STRI), Bingley** **June – Sept 2017**  
**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 the “*Career and Employability Special Award*” for my commitment and effort to STRI. I handled great responsibility from day one and handled a project for 4 weeks.
  - 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.
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## **OTHER EMPLOYMENT EXPERIENCE**

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### **McDonalds Plc, Bradford**

**May 2016 – 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, ensuring that they are competent crew members.

### **Grange Fisheries, Morley**

**April – Sept 2015**

#### **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 RESPONSIBILITIES**

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### **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 2015 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 Responsibilities**

- 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 was in excellent 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**

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- 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.
- A keen Liverpool Football Club supporter and like to keep up-to-date with all levels of football.
- Enjoy the outdoors and like to socialise with friends regularly.

## **REFEREES**

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