Ahmed Marjan MEng MSc Chemical Engineer

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Nationality: British

Work Experience

Process Engineer: Stantec, Leeds, Yorkshire, UK **Oct 2019 – Present**

- Further developing in depth knowledge and experience in delivering innovative, sustainable, and efficient engineering solutions in the water industry
- Taking a lead process role, as part of a multi-disciplinary project team, delivering WINEP projects for the AMP7 programs.
- Preparing detailed design specifications for AMP7 project solutions including load analysis, P&ID diagrams, control philosophies, process calculations as well as developing site-specific Risk Assessments and Hazard Studies.
- Developed a strong working relationship with the client through technical presentations and detailed project related discussions.
- Producing comprehensive and detailed reports communicating technical information and project solutions.
- Project management of onsite sampling investigations and optimization projects for wastewater treatment works to meet new site-specific EA regulations. Analysing sample data to provide optimum solutions to the client.

Process Engineer: Arvia Technology, Runcorn, Cheshire, UK **Nov 2017 – Sept 2019**

- Active role in defining the applications, scope and understanding of Arvia technologies as well as designing, assigning, and managing experiments to optimise the current version of the technology.
- Responsible for treatability trials on customer wastewater samples including reviewing data from trials and planning and carrying out optimization trials to offer the optimum solution to the client.
- Producing thorough technical treatability reports with supporting evidence on the capabilities of Arvia technologies against specific client applications with recommendations for progressing to a full-scale treatment system.
- Providing preliminary plant sizing and costings as well as technical expertise on commercial proposals for treatability trials, pilot trials and full-scale installations of Arvia systems.
- Providing technical expertise on the design of Arvia systems according to client demands for customer projects.
- Preparing and compiling detailed design specifications of treatment plants including P&ID diagrams, valve schedules and control philosophies as well as developing site-specific Risk Assessments and HAZOP studies.
- Responsible for the installation, commissioning, and decommissioning of pilot and full scale Arvia systems on customer sites in addition to providing onsite training and Operating Manuals for treatment systems.

Recycling Controller: United Utilities, Davyhulme, Manchester, UK **Nov 2016 – Oct 2017**

- Ensuring biosolid products are recycled at the correct application rate in line with changing regulation limits.
- Ensuring compliance with United Utilities Sludge to Land Code of Practice and Legislative and regulatory standards.
- Liaising with the Environment Agency to ensure they are notified of stockpile location and tonnage to be spread.
- Coordinating with contractors, farmers, and Agricultural Advisors to schedule cost effective deliveries of biosolids.
- Monitoring costs and ensuring timely payment of contractor invoices are made.
- Certifying correct quantities of biosolid monitoring samples are taken and ensuring it is compliant with HACCP.

Process Operator: United Utilities, Denton, Manchester, UK **June 2016 – Nov 2016**

- Monitoring and intervention of onsite SCADA system to optimize effective operation of clean water treatment works.
- Updating onsite documentation, carrying out daily sampling and verification of water quality and creating a record of activities carried out while supporting controllers and service engineers with various site maintenance duties.
- Ensuring Health & Safety processes and procedures are adhered to while maintaining a clean working environment.
- Coordinating and monitoring chemical deliveries and external contractors onsite.
- Experience of both working alone using own initiative as well as working as part of a team.

Graduate Project Management Placement: Sayga Flour Mills, DAL Food, Khartoum, Sudan **Jan 2015 – July 2015**

- Project managed food-manufacturing plant commissioning projects for multi-national investment company.
- Established a better perspective of the obstacles encountered by corporate companies in a third world country.

- Participated in technical and financial aspects of projects while working alongside other departments, engineering disciplines and stakeholders in the business.
- Developed interpersonal, follow-up and people management skills to manage and coordinate project tasks.

Education

MSc Advanced Process Integration & Design: **Sept 2015 – Dec 2016**
The University of Manchester (IChemE accredited)

Modules:

- Course provided a systematic conceptual understanding of the principles of process design and integration in relation to the energy, petroleum, and chemicals sectors of the process industries.
- Focused on design, optimisation and integration of process technologies and related heat and power processes.
- Modules include energy systems, utility systems, computer aided process design, reaction systems, distributed & renewable energy systems, and oil & gas processing.

Research Project:

- Applied knowledge and skills acquired throughout course to investigate process technologies and design methodologies.
- Title of research: Water minimisation in petroleum refineries (Shell refinery case study)
- Developed an understanding of the latest research advancements in water minimisation techniques and technologies
- Conducted water network modelling simulations using process integration software to minimise the costs associated with water usage in a real refinery process.

MEng Chemical Engineering: Second Class Upper (2.1) With Honours: **Sept 2010 – June 2014**
The University of Birmingham (IChemE accredited)

Modules:

- Covered all major aspects of chemical engineering including mass, heat & momentum transfer, advanced transport processes, thermodynamics, and multiphase systems.
- Basic concepts in civil, mechanical, biochemical, and environmental engineering embedded throughout the course.
- Module selection enabled the addition of petrochemical engineering and sustainable development modules.

Design Project:

- Developed and presented innovative ideas to engineer commercial products from FEED through to detailed design.
- Group projects included preparing plant layouts (P&IDs and PFDs), equipment lists, control systems, HAZOP studies and cost estimates while individual projects consisted of full scope detailed design of industrial equipment.

Research Project:

- Conducted experimental work and presented clear, concise, and accurate technical engineering design specifications.
- Lab based and pilot plant research topics include Liquid Mixing Systems, Reactors & Catalysis and Fuel Cell Technology.

Sixth Form: Urmston Grammar School, Manchester **Sept 2008 – July 2010**
A-Levels: Mathematics (A), Chemistry (A), Physics (A)

High School: Kassim Darwish Grammar School, Manchester **Sept 2003 – July 2008**
GCSEs: 10 A* - A (Including Mathematics, English, and Sciences)

Interests

Currently working towards IChemE chartership and APMP certification
Member of the Tybata Muay Thai Boxing training gym and previously a member of the University Muay Thai Boxing society
Making an active effort to volunteer my time to give back to the community and those less fortunate
Strong swimmer and regularly attend the gym to maintain physical fitness

Skills

Full Clean UK driving licence

IT Skills Advanced knowledge of MS Office packages: Excel, Word, PowerPoint, Publisher, and Microsoft Visio
Skilled at AutoCAD and MATLAB operating software's

Languages Bilingual [Arabic & English]

References: Available upon request