

Ahmed Mahmoud Hossameldin Mahmoud Ibrahim

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Education

Current PhD Chemical and Biological Engineering, Drexel University, United States

- Advisor: Prof Nicolas Alvarez, Co-Advisor: Prof Giuseppe Palmese

Jan 2018 MSc Chemical Engineering (IChemE Accredited), Overall Percentage 72.79% (Pass with Distinction), Swansea University, United Kingdom

- Taught modules: Complex fluids and rheology, membrane technology, communication skills for research engineers, principles of nanomedicine, colloid and interface science, pollutant transport through groundwater flow, nanoscale structures and devices, desalination, entrepreneurship for engineers, MSc research practice
- MSc dissertation: Topic "All-carbon batteries for next generation energy storage", supervised by Professor Serena Margadonna. Passed with Distinction

Jan 2015 BSc Petroleum and Petrochemical Engineering, CGPA 3.49/4.0 (Equivalent Appreciation "Very Good"), Cairo University, Egypt

- Graduation project: "Production of Ethylene Glycol(s)", supervised by Dr Tamer Samir Ahmed, Grade awarded "A" (Excellent)
 - Appointed graduation project's team leader
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Training Experience

Aug 2015 Research Intern, Egyptian Petroleum Research Institute (EPRI), Cairo, Egypt

- Worked with a team of researchers at the institute's central laboratory analysing water samples brought from oil wells to determine the optimal way to treat and reuse it
- Key skills learned: water sample characterisation through chromatographic techniques, laboratory measurement of physical properties such as density, viscosity, biological oxygen demand (BOD) and chemical oxygen demand (COD)

Feb 2015 Field Chemist, Arab Contractors Cameroon Ltd, Yaounde, Cameroon

- Successfully applied site unit operations by sorting gravel particles used for road pavement
- Witnessed how bitumen processing is optimised through mixing with other raw materials to produce asphalt with minimal losses
- Toured one of the company's warehouses and learned how spare parts of different machinery were kept and maintained

- Carried out material testing in situ (such as slump) and in the lab (such as viscosity and bearing rate)
- Learned the basics of laboratory and worksite risks and safety rules

Aug 2012 Engineering for Petroleum and Process Industries (ENPPI), Cairo, Egypt

- Attended lectures covering the topics: gas processing, crude oil characterisation and refining, mass transfer and distillation columns internal design, heat exchanger operation and design, introduction to petrochemicals
- Learned process simulation basics by attending HYSYS software tutorials

Jul 2012/13 Rovira I Virgili University Summer Programme, Tarragona, Spain

- Summer 2012 project 'Synthesis and Characterisation of Ionic Liquids used as Heat Absorbents in Refrigeration Systems', supervised by Dr. Tausif Altamash
- Summer 2013 project 'Extraction of Lipids from Sewage Sludge and Transforming them into bio-diesel via Trans-esterification Reaction Catalysed by Ionic Liquids,' supervised by Dr. Magdalena Olkiewicz

Extracurricular Activities

- Swansea University's Bigger Picture Festival Country Representative
- Swansea Employability Academy (SEA) Representative
- Swansea Science Festival Institute of Physics (IOP) Stand Volunteer, in collaboration with STEM Ambassadors UK
- Swansea University Library MS Office Student Assistant

Work Experience

Mar – Apr 2018 Vodafone Customer Service Advisor (UK Account)

Oct 2016 – Jun 2017 Swansea Employability Academy Representative

Jan 2016 – Mar 2016 SAP Business One Consultant

Other Competencies

Languages

- *English*: Advanced proficiency (written and spoken)
- *French*: Intermediate proficiency (written and spoken)
- *Spanish* and *German*: Elementary proficiency (written and spoken)
- *Arabic*: Mother tongue

Awards and Achievements

- Swansea International Merit Scholarship for Academic Year 2016/17
- Swansea University Sustainability Award "Level Silver"
- Swansea University's first International Video Blogger and one of its Honorary Ambassadors
- Elected as an IChemE Associate Member (as of August 2017)

IT

- Advanced Microsoft Office (Word, PowerPoint, Excel, Outlook) user
- Used MATLAB, PHREEQC and POLYMATH software in academic coursework
- Certified SAP software user (ERP and Business One)