

## Osman SalahEldin Hussien Elhassan



### Personal Details:

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- **Date &Place of birth:** 07/10/1990, Oman- Muscat
- **Passport No.** P01897374
- **Nationality:** Sudanese
- **Driving License:** Oman's private driving license
- **Languages:** Arabic (native), English (fluent), Malay (basics)
- **Current Address:** Al Khuwayr 33, Muscat, Oman
- **Hand Phone:** +96892395338
- **Email ID:** osman.salah1990@gmail.com

### Education & Qualification:

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**2007/2008**

**Jaber bin Zaid High School**

- 12<sup>th</sup> grade, equivalent to international O level
  - 10 subjects, 7 A's and 3 B's

**Jan 2009 – Oct 2014**

**Universiti Teknologi PETRONAS (UTP), Malaysia**

- Intensive English Course
- Engineering foundation studies, 1 year
- Bachelor of Engineering (Hons), Petroleum Engineering
  - Cumulative GPA: 3.18 (Second Class Upper)
  - Years of Study: 4 Years
  - Graduation Date: 19<sup>th</sup> Oct 2014

**Feb 2016 – Jan 2019**

**Universiti Teknologi PETRONAS (UTP), Malaysia**

- Masters by research in Petroleum Engineering
  - Hydraulic fracturing fluid additive enhancement
  - Years of Study: 3 Years
  - Expected graduation date: Oct 2019

## Work Experience

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UTP • Perak, Malaysia • February 2016 – Current

Lecturer assistant, Laboratory tutor

Thought students in labs about drilling fluids preparing, drilling simulator training, rock fluids and properties including basic laws of petroleum engineering, as well as conducting tutorials for the students. In addition, my MSc project included a lot of laboratory work with surfactant and mixtures preparing, Interfacial tension and density measurements.



KACST • Riyadh, Saudi Arabia • July 2017 – September 2017

Laboratory student/trainee

Continued my MSc project experiments in King Abdulaziz City for Science and Technology. Learned to use new equipment, prepared new surfactant samples, experimented with methane gas and shale rock, solved problems with the gas release system, and discovered new way to use the device software.



ORPIC • Muscat, Oman • March 2015 – May 2015

Operations Engineer, Trainee

Onsite training in field and panel operation. Learned how to do routine checks for the pumps, compressors, and other equipment. Also learned about the reactions in Area 2 (Platformer) and the process to increase the octane number of the Naphtha to generate the petrol that is used in our daily life.



SOLTEX • Al- Rusayl, Oman • May 2013 – December 2013

Document Controller, Well testing Engineer, Trainee

Office work, inventory control and maintenance, well testing, and sand management.

Learned about the well testing and sand removal techniques that are used before starting the production. Also worked as a document controller recording the equipment in the company software and keeping track of the certification of each device.



## Honors, Awards and Associations:

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- ❖ Dean's List, Jan 2010.
- ❖ Top student award at high school, 2007.
- ❖ Society of Petroleum Engineers (SPE) member, UTP Chapter, 2010-present.
- ❖ Student Ambassador Program of Universiti Teknologi PETRONAS “Ambassador to Oman”, 2011-2016.

## Computer Skills:

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|--|--------------------------------|
| ➤ Eclipse, wellflow, and prosper                   | ➤ Programming code, C++ basics |
| ➤ Designing logos, shirts, and presentation slides | ➤ Adobe Photoshop & Lightroom  |
| ➤ Basic technology fixing & handling skills        | ➤ Microsoft Office Suit;       |
|  | Word, Excel, PowerPoint        |

## Co-curricular Activities

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- International Students Council (ISC) Executive committee, sport department, 2010.
- International Culture Night (ICN) 2011, a member of Go Green Project.
- Breakdancing- 1<sup>st</sup> runner up in super dancers & performer in many local events.
- Professional Photography & photo editing, 3<sup>rd</sup> place in local University competition, photographer.
- Tennis- scored A in the university course.
- Travelling- visited many countries and keen to experience different cultures and a passion for history and languages.
- Euphonious 2014, Member of the media department
- Orphans day 2012 and 2014, photographer and member of the committee

## HSE training

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Courses completed:

- H2S Awareness & Escape
- Dealing with Hazards and Risks
- Initial Fire Response
- Health, Safety, & Environment Induction

\*Received the HSE training passport from PDO (petroleum Development Oman)

## Academic Projects

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### Field Development Project

- Volumetric calculation for the oil reserves in the geology part
- Production optimization and inflow/outflow performance prediction using prosper
- Identifying any possible problems during production
- Drawing and Interpreting Contour Maps

## Final Year Project

A Comparison study between Cold CO<sub>2</sub> flooding and various miscible solvents.

Scope of work:

- Research on the background and theory of Carbon Dioxide and miscible flooding EOR from various sources of information such as books, thesis, journals, research papers, and other publications.
- Computer simulation to evaluate the effectiveness of cold CO<sub>2</sub> injection compared to other miscible solvents and using different reservoir fluids and temperatures in the simulation to adapt to different scenarios.

Software Used: ECLIPSE SLB

## Engineering Team Project

Designing and building a smart shopping trolley that can be attached to the trunk of the car for easier and faster loading/unloading

## MSc research project

Experimental Study on the surface tension behavior between different Surfactants and Methane gas at various conditions. Surfactants are used as additives to reduce the surface tension between gas and water which also means a reduction in the capillary pressure and hence easier flow of gas to be produced and water to be recovered back. In this experiment, the surfactant effect on SFT (surface tension) between water and methane gas was studied using the pendant drop method. Alpha Foamer® surfactant and two co-surfactants with different concentrations were used under various conditions to find the best chemical fluid capable of reducing SFT and improve the hydraulic fracking fluid for unconventional formations.

Publications:

Beyond fracking: Enhancement of shale gas desorption via surface tension reduction and wettability alteration

<https://www.sciencedirect.com/science/article/abs/pii/S1875510018303226>

<https://doi.org/10.1016/j.jngse.2018.07.011>

## Key skills

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|--------------------------|------------------------|------------------|---------------------|
| ○ Positive communication | ○ Culture adaptability | ○ Prioritization | ○ Teamwork          |
| ○ Event coordination     | ○ Time management      | ○ Self-directed  | ○ Critical thinking |