

Mohammad Sadre Alam

S/O Capt. Sarwar Alam

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Email: sadrealam89@gmail.com**Profile Summary**

I am a postgraduate petroleum engineer with more than three years of relevant field service experience seeking an opportunity in upstream petroleum industry.

I desire to travel all around the world, learn and use new technologies. I like the challenge of trying to solve technological and economical difficulties. My long term ambition is to be an oil and gas consultant.

Education

MSc Petroleum Engineering from Institute of Petroleum Engineering, Heriot Watt University, Edinburgh, United Kingdom, 2016.

Covered industry tailored modules as given below, which helped me to develop a detailed understanding of the upstream petroleum industry.

Semester-I	Semester-II
Drilling Engineering	Well Test Analysis
Reservoir Engineering	Production Technology
Petroleum Geosciences	Petroleum Economics
Formation Evaluation	Reservoir Simulation

- Represented Heriot Watt University at Dundee University quiz competition by virtue of being qualified from the class in petroleum quiz.
- Represented Heriot Watt University at the first ever edition of SPE Petro-bowl Europe Regional Qualifiers 2015 SPE/IADC Drilling Conference and Exhibition, London, U.K. Finished in top 4 of all 19 European teams and then proceeded to the championship finals in Texas, USA.

Technical Director, Field Development Project

- Led an asset/project team of 8 persons from different nationalities with the aim of fully implementing a 6-week field development program of North Sea oil field (Fulmar) with the real data afforded by Wood Mackenzie.
- Development program cuts across exploration, reservoir engineering, drilling engineering and production technology consideration up to field abandonment with elaborate analysis of project economics, environmental impact and sustainable development.

- Spear headed with reservoir engineering and production technology sub-team which involved making decision on well placement, injection and production rates as well as selection of suitable enhanced oil recovery techniques to be administered in-field.
- Technically supervised the production technology team, involved in designing optimum tubing ID by analyzing the different aspects such as % water cut, gas rate, oil rate, and different production rates with the help of Welflo software tool by running Nodal Analysis.

Individual Project: - Impact of sand production in Unconsolidated, Semi-Consolidated and Friable reservoirs and selection of optimum completion.

- Performed a technical feasibility study on the different reservoirs formation sand with uniaxial compressive strength (UCS) and drawdown using Welflo software tool and prediction of sand production at different water cuts (fraction) are made when drawdown pressure is roughly equal to 1.7 times the uniaxial compressive (UCS) strength of rock.
- Sensitivity analysis of water cut and drawdown values are compared with the calculated drawdown values and sand production is predicted.
- Different downhole completion are selected like open hole, cased hole, open hole gravel packing and sensitivities are run on each completions with shot phasing, shot density, layer pressure and water cut with Welflo tool and comparison are made to find the optimum water cut with drawdown pressure and sand predictions are made comparing the UCS of the rock.

Bachelor degree in Chemical Engineering (First Class- 2010) Pune University, India

Dissertation: - Reaction Kinetics in UASB (Up flow Anaerobic Sludge Blanket) reactor.

- Intelligent use of anaerobic digestion of 2.5%, 7.5%, 15% and 30% of sugar solution as a waste water, with pH between 6.5 to 5.5 and total COD in the range of 2700 to 48500 mg/lit. is studied for 40 days in an Up flow Anaerobic Sludge Blanket (UASB) reactor by feeding 250gms of sugar for COD (Chemical Oxygen Demand) reduction and biogas generation and kinetics reaction model was developed which resulted in 68% COD reduction efficiency.

Achievements/Certifications

- Certificate of accomplishment in Reservoir Geomechanics from Stanford University (March-June, 2016), (12 Weeks free online course).
- Received full scholarship from the **Shell** and **Rigzone** for the ATCE-Petrobowl championship competition held in Houston (28 September, 2015).
- Obtained sponsorship award as a Europe finalist for the 2015 SPE Petro-bowl contest at the Annual Technical Conference and Exhibition, Houston, Texas, USA.
- Placed at top 5 positions from 132 universities at Petrobowl championship held in Houston for the final round.
- Certification course in software testing from SEED Info. Tech. Pune, 2013.

Conferences Attended

- Annual Technical Conference and Exhibition (ATCE), Houston, Texas, USA, Sept. 2015.
- Offshore Europe Conference which was held in Aberdeen, September, 2015.
- Technical conference on the topic of North Sea oil crisis held in Aberdeen, February, 2015.
- Technical conference on Sand Control under the Society of Petroleum Engineers (SPE), Aberdeen, November, 2014.

Work Experience :- (Total +3 Years of Experience in Alignment, Installation and Supervision of Water Treatment Plant, Waste Water Treatment Plant, Sewage Treatment Plant and Desalination Plant)

September 2016 to Present

Installation and Commissioning Engineer

Ion Exchange (India), Bangalore

- Installation and Commissioning of water treatment plant at Hutson Agro Products Limited, Belgaum, February, 2017
- Installation and Commissioning of 300KL Water Treatment Plant at Bilagi (Karnataka), September to January, 2017.

November 2011 to June 2014

Field Service Engineer

Aquatech System ASIA Pvt. Ltd, Pune

- Developed good interpersonal skills by working with a group of 10 engineers and developed management skills by supervising 50 skilled and unskilled workers at site, thereafter reporting to the project manager for result reassessment and documentation.
- Acquired vast array of safety skills at site while installation of Water Treatment Equipments and safety training which cut across Job Safety, Emergency Procedures amongst others.
- Grasped full knowledge of general arrangement, piping layout, isometric, engineering drawing, plan layout drawing. Was Instrumental in maintaining work schedule.

Volunteer/other experience (s)

Currently tutoring a number of undergraduate petroleum engineering students of MIT College of engineering, Pune on drilling engineering, production technology, and Well Test Analysis.

Technical skills

Eclipse, Techlog, Pansystem, Wellflo, Prosper, Petrel, MS-Excel, MS-Word, MS-PowerPoint.

Hobbies

Reading novels , Travelling and Cooking.