Hassan Aslam

832-863-5751 ▪ Houston, Texas ▪ hassan.ali.6598@gmail.com

EDUCATION

Texas A&M, College Station **May 2020 – May 2024**
Bachelors in Petroleum Engineering GPA: 3.1

Houston Community College Honors, Houston **May 2018 – May 2020**
Associate in Science (Physics) GPA: 3.6

PROFESSIONAL EXPERIENCE

Occidental Petroleum, Houston, Texas **Aug 2023 – Aug 2024**
Operations Automation Engineering Co-op

- Managed the end-to-end manufacturing, installation, and supervision of over 50+ custom, in-house AVOID (Audio, Visual, Olfactory Inspection and Detection) surveillance systems for automated state mandated AVO inspections.
- Collaborated with IT counterparts to enhance and optimize AVOID testing, ensuring the smooth deployment of essential data to the cloud registry for the Data Analysis team.
- Directed strategic planning and execution of device deployments to the fields through effective collaboration with multiple teams, facilitating scheduling and operational coordination.
- Developed a Power App application to streamline methane sensor mapping and organize incoming data flow to the cloud, enhancing data management efficiency.

Repsol, Woodland, Texas **May 2023 – Aug 2023**
Drilling and Completion Engineering Intern

- Collaborated closely with the Drilling Engineering team to develop comprehensive strategies, drilling parameters, mud weight programs, cementing plans, and precise wellbore schematics for over 10 wells within the Eagle Ford Shale formation.
- Supported well construction supervisor in overseeing $20 million 4-well pad project, ensuring precise execution of directional drilling, mud fluids, cementing and drilling.
- Executed a $30+ million design for 6-well pad completion in unconventional shale while overseeing key parameters including pump rate, sand concentration, treating pressure and stage time to optimize the design for forthcoming ventures.
- Conducted an in-depth research analysis comparing two strings versus three strings casing design within the Eagle Ford Shale by leveraging insights from studying data sourced from over 1500+ offset wells to facilitate the optimization of casing designs to align with economic consideration.

Baker Hughes, Houston, Texas **May 2022 – Aug 2022**
Artificial Lift System Intern

- Conducted a case study on Artificial Lift System for 50+ wells on real-time data to scrutinize the performance of low and high-volume ESP pumps in terms of pump efficiency, lifting, and power consumption to optimize ESP pump performance.
- Collaborated with optimization and monitoring team to create a lens on Production Link for 100+ wells for customers like Pioneer, BPX, and Chevron to analyze and optimize the performance of ESP units in the Permian.
- Developed a data tracker for 300 wells to track the ESP unit specifications, the life of unit, and the failure rate.

ACADEMIC PROJECTS

Texas A&M (Integrated Asset Development) **Fall 2023**

- Led a team to strategically identify an area of interest through a comprehensive analysis of formation data, geological properties, and production performance, resulting in the prediction of 4.2MMBBL of oil reserves.
- Conducted an economic analysis utilizing Decline Curve Analysis (DCA) and economic limits to determine proved reserves and establish the bid price for the area of interest.
- Explored and evaluated upside potential through different scenarios for maximum production and potential profit.

SKILLS

Bilingual, Autograph PC, ESP Expert, Microsoft Office (Word, Excel, PowerPoint), Spotfire, Power BI, Power Apps, Kappa, CMG (Reservoir Simulator), and Basic Python.