

Mazin Osman

Dubai - Deira - Al Khaleej Street - Humaid Sultan Building, Dubai, United Arab Emirates • [linkedin.com/in/mazin-osman-a53467195](https://www.linkedin.com/in/mazin-osman-a53467195)
mazzony65@gmail.com • 00971543195294

Petroleum Engineer

Recent Petroleum and Natural Gas Engineering graduate with a keen interest in energy transition and sustainability, specializing in the application of Artificial Intelligence in Petroleum Engineering. Successfully applied Artificial Neural Networks to predict discharge pressures for performance optimization in my Graduation Project. Skilled in problem-solving through collaboration on a project addressing crude oil temperature loss during pipeline transportation. Proven leadership as the former Membership Chairperson and President of the SPE University of Khartoum student chapter, showcasing strong organizational and communication skills.

WORK EXPERIENCE

2B Operating Petroleum Company • GNPOC Tower Khartoum, Sudan • Internship • 01/2023 - 02/2023

Interned at 2B OPCO as a Production Programmer Trainee, specializing in optimizing the electrical submersible pump (ESP) system. Monitored ESP sensor parameters, detecting anomalies for early failure recognition. Played a key role in developing and implementing an AI model for predicting discharge pressure, contributing to performance optimization.

Production trainee

EDUCATION

B. Sc. in Petroleum and Natural Gas Engineering

University of Khartoum • Khartoum, Sudan • GPA: 8.6 • 10/2016 - 10/2023

Coursework includes:

Petroleum Engineering Fundamentals, Reservoir Engineering, Drilling Engineering, Production Engineering, Natural Gas Engineering, Petroleum Economics, Petroleum Geology and Geophysics, Petroleum Refining and Transportation, Engineering Management and Engineering Ethics.

CERTIFICATIONS

EOR Applications

BISCO ENGINEERING CENTRE • 01/2023 - 01/2023

AWARDS & SCHOLARSHIPS

Data Science course

Data Science Infinity • 10/2023

First place at 2022 ADIPEC University Programme

Society of Petroleum Engineers • 11/2022

Third place at PETRCUP competition Africa League

Nafta college • 07/2022

PROJECTS

The pivotal Role of Carbon Capture in Energy Transition

SPE 2022 ADIPEC University Programme • 10/2022 - 11/2022

Led by the SPE University of Khartoum student chapter, my team championed the project "The Pivotal Role of Carbon Capture in Energy Transition." Focused on Carbon Capture Utilization and Storage (CCUS), our initiative emphasized its global importance in driving the energy transition and combatting climate change. We secured first place among 15+ universities in MENA at the 2022 ADIPEC University Programme, highlighting our dedication to enhancing CCU efficiency and sustainability. Through extensive research, we identified areas for improvement, optimizing capture methods, innovating utilization techniques, and ensuring overall CCU process sustainability. This reflects our commitment to environmental solutions, showcasing our team's excellence in research and technological innovation.

Flow Assurance Software

PETCO Pipelines company • 01/2022 - 02/2022

I played a key role in developing cutting-edge Flow Assurance Software at PETCO pipelines. Collaborating with a dynamic team, I crafted a sophisticated Python application tailored to calculate the distance heated oil can travel without encountering pour point issues. Leveraging my expertise in mathematics and heat transfer, I ensured the software's precision, highlighting my proficiency in software development and problem-solving within the energy sector.

VOLUNTEERING & LEADERSHIP

PetroNile Academy

University of Khartoum Ambassador • Khartoum, Sudan • 09/2022 - Present

Volunteered as an ambassador for PetroNile Academy, representing the University of Khartoum. Connected students with the oil and gas industry through promoting educational events and resources. Developed effective communication, outreach, and networking skills, enhancing understanding of the sector. A proactive advocate with valuable industry insights.

Society of Petroleum Engineers University of Khartoum student chapter

Prisedent • Khartoum, Sudan • 02/2022 - 04/2023

As President of the SPE University of Khartoum student chapter, orchestrated diverse events, online sessions, workshops, and guest lectures. Established UofK Petro Magazine and Website. Fostered community, organized support, and facilitated new student orientation. Spearheaded the SPE She event, showcasing commitment to gender diversity. Achieved a notable 94.44% growth in membership and secured the SPE Excellence award for outstanding contributions, enhancing leadership, event management, and communication skills.

Society of Petroleum Engineers University of Khartoum student chapter

Membership chairperson • Khartoum, Sudan • 11/2018 - 01/2020

PUBLICATIONS

Application of Artificial Neural Networks in Predicting Discharge Pressures of Electrical Submersible Pumps for Performance Optimisation and Failure Prevention

One Petro • 10/2023

SKILLS & INTERESTS

- Proficient in MS Office with strong organizational and management skills, Effective communication and teamwork enthusiast, Experienced in working with staff and groups, skilled in documentation, Specialized knowledge in geology reservoir engineering and drilling techniques, Expertise in identifying and solving complex technical problems in oil and gas, Familiar with CMG reservoir simulation and MATLAB for data analysis, Adaptive to changing industry trends technology and market conditions, In-depth understanding of safety protocols and environmental regulations., Passionate about energy transition, sustainability, CCUS, and climate change