TAREQ ALBUKHARI

MINING ENGINEER

CONTACT

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PERSONAL INFORMATION

Birthdate
1982

Gender
Male

Residence
Tripoli - Libya

Nationality
Libyan

PROFILE

Experienced Geomechnical Engineer with a demonstrated history of working in the construction and petroleum industry. Skilled in Rock Mechanics, Mathematical Modeling, Geology, Numerical Simulation, and Tunneling. Strong engineering professional with a Master of Science (M.Sc.) focused in Mining Geomechanics from University of Tripoli.

EXPERIENCE

2021 - Present

University of Tripoli - Faculty of Engineering
Assistant Lecturer, Tripoli

- Lead and instruct students of Mining engineering department in fundamentals of Rock Mechanics and Slope Stability through experiments design and with an active lecture style to promote student engagement.
- Quality and performance of education components in Mining Engineering Department.

2017 - 2021

RAI Oil Field Services
Lab Engineer, Alfeel Oil Field

- Preparing and Testing construction materials including basecourse, aggregates and concrete cubes
- Analysing the chemical make-up and physical properties of samples
- Servicing and maintaining laboratory equipment, and interpreting data
- Suggesting new construction materials to use in case of shortage of materials occur.

2008 - 2016

National Consulting Bureau
Geotechnical Engineer, Tripoli

- Gathering and analyzing geotechnical data
- Advising on procedures required and the
- suitability of construction materials
- Using specialist computer software to create analytical 2D and 3D models
- Consulting geological maps to advise on site selection
- Planning detailed field investigations by drilling
- Supervising ground investigations and budgets
- Advising on and testing a range of construction materials
- Making recommendations

SKILLS

Office apps

MS Word
MS Excel
MS PowerPoint

Languages

English
Arabic
Amazighi

Geotechnical Softwares

ITASCA FLAC2D
ITASCA FLAC 3D
RocScience Phase2
RocScience Dips
RocScience Slide2
RocSciece RocData

Geomechanical Softwares

Schlumberger Techlog
Baker Hughes JewelSuite Geomechanics

Coding

C++
Python
Matlab
Fortran
BASIC

2009 - 2012

Weatherford Lamb Limited
Mud Logger, Tripoli

- Monitoring computer recordings of drillings
- Operating and maintaining a real-time computer-based data acquisition system
- Reporting to the wellsite geologist and the oil company in written reports
- Interpreting information and feeding it back to the drilling team to enhance safety and success
- Assisting the wellsite geologist during coring operations
- Working in wellsite units collecting, processing, logging and analyzing geological samples

EDUCATION

2012 - 2018

Master of Science/Mining Engineering
University of Tripoli, Tripoli
I focused my study in the subject of Geomechanics. So I've choosed varied courses related to the subject, such as: Rock mmechanics, Rock Fracturing Mechanics, Stress-Strain Analysis, Tunnelling and Supporting and Underground Opening Design. In the last year, my supervisor advised me to write my thesis about Wellbore Instability problems, Because it's a widespread problem in the Oil industry which related to Rock Mechanics. Finally we succeeded to to propose a geomechanical solution for a wellbore instability problem incountered in one of the biggest Oil fields in Libya.

2000 - 2007

Bachelor of Science/Mining Engineering
University of Tripoli, Tripoli
I focused my interests in Geomechanics, and I wrote my project in underground opening design. In my project, I suggest to construct underground storage to store hydrocarbon materials, and I could proof these type of storage are more safe and less cost than traditional surface facilities.

PUBLICATIONS

Research Paper

GEOMECHANICAL WELLBORE STABILITY ANALYSIS FOR THE RESERVOIR SECTION IN J-NC186 OIL FIELD

Tareq. M. Albukhari, Ghaith K. Beshish, Moftah M. Abouzbeda, Abdasalam Madi | 2018

A research paper published in ISRM First International Conference on Advances in Rock Mechanics, March 2018, Hammamet, Tunisia.

COURSES

04/2018 **RESERVOIR GEOMECHANICS**

Stanford University, California

Understanding of practical issues in energy production combining knowledge of the stresses in the Earth with the principles of rock mechanics, structural geology, petroleum engineering, and earthquake seismology.

03-2018 **THE INTEGRATION OF STRUCTURAL GEOLOGY AND APPLIED ROCK MECHANICS**

Tunisian Society of Rock Mechanics, Tunisia

The origin and the characteristic of rock joints and joint sets (i.e. fractures and fracture sets), shear strength, anisotropy, Q-System application for drill and blast tunnelling , TBM tunnelling and QTBM prognosis.

03-2018 **DETERMINISTIC AND PROBABILISTIC ROCK SLOPE STABILITY ANALYSIS**

Tunisian Society of Rock Mechanics , Tunisia

The application of kinematic (both deterministic and probabilistic) and limit equilibrium analysis for rock mass surface excavations.

03-2019 **DRILLING AND RESERVOIR FLUID PROPERTIIES**

Algifr Co. Consulting and Training, Tripoli

Part1: Addressing how to engineer a mud system, as well as cover water and oil based mud, and synthetic mud systems.

Part2: introduction to the topic of PVT and reservoir fluid phase behavior, PVT laboratory experiments and an introduction to equations of state.

REFERENCES

Eng. Abd u Raheem Dwaia
, Head of Geotechnical and Surveying Department
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, Project Manager at Rai Oil Field Services
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