

MARIO EMAD SAAD ABDELMALEK

My Website 2 sections: <https://mario-emad.com/> <https://mario-emad.com/blogs-list/>

SENIOR DRILLING ADVISOR in SAUDI ARAMCO

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SUMMARY

Experienced Drilling Foreman with over 11 years in drilling operations, currently in the world's largest petroleum company [SAUDI ARAMCO]. Proved track record in managing drilling crews, optimizing well operations, and ensuring HSE compliance. Strong expertise in well control, directional drilling, and hydraulic fracturing. Excellent hands-on experience in both onshore and offshore projects. Fluent in English

EDUCATION

PhD in Petroleum Engineering, 2025 (Obtained: Sept, 2025)

Faculty of Petroleum & Mining Engineering, Suez University, Egypt

- **Research Topic:** SPE Paper: <https://doi.org/10.2118/217002-MS>

Master's Degree in Petroleum Engineering, (Obtained: Feb, 2019)

Faculty of Engineering, Cairo University, Egypt

- **Research Topic:** SPE Paper: <https://doi.org/10.2118/225086-MS>

Bachelor of Science in Petroleum Engineering (Drilling, Reservoir, Production), 2014

Faculty of Petroleum and Mining Engineering, Suez University, Egypt

Average score (for the five years): Very good with honors, (80.67%), (3.5 GPA)

- **Graduation Project:** Well Logging Techniques – Grade: Very Good

PROFESSIONAL EXPERIENCE

Drilling Foreman "Senior Drilling Advisor"

Feb 2022 - Present

ARAMCO- SAUDI [[World's Largest Petroleum Company](#)]

- Overseeing drilling operations (onshore), ensuring adherence to ARAMCO's safety protocols.
 - Lead drilling teams to optimize well performance, resulting in a 10% increase in drilling efficiency.
 - Conduct safety meetings and maintain compliance with industry standards.
 - Collaborate with geology and engineering teams to refine drilling strategies and well design.
- Manage equipment logistics and coordinate material requirements to prevent operational delays

Drilling Supervisor "Company Man"

Aug 2015 - Jan 2022

Petrobel (ENI's Partner)- EGYPT

- Supervised all drilling activities, including rig mobilization, logging, casing, and well completion.
- Successfully executed drilling operations on high-pressure gas wells using advanced well control techniques.
- Led remedial cementing projects on over 50 wells, achieving a 95% success rate.
- Implemented HSE procedures that resulted in a zero-incident record over the past 5 years.
- Enhanced drilling efficiency by optimizing mud systems, reducing costs by 12%.

DRILLING EXPERIENCE

Responsible for Application of H.S.E at Rig Site.

Directs The Drilling Contractors to Adhere to The Safety Guidelines.

Supervise All Drilling Operations On Drilling Rigs For Both Shallow & Deep Wells.

- Supervise All Rig Operations (Drilling, Logging, Casing or Liners, Cementing, and Completion & Rig Mobilization).
- Dealing with Different Types of Water Base Mud (Spud Mud , Gel Mud, Kcl / Polymer mud, Ultra-drill mud) & Oil Base Mud.
- Supervise Open Hole Fishing Operations also, using Thread & Cut technique for Wire Line
- Supervise Conventional Coring operations.
- Dealing with different Directional Tools (MWD, LWD, Motors, RSS, (Baker-Schlumberger) ATK & Power Drive)
- Supervise Open Hole Side-Track jobs Using Motors, Whip-Stock (Mechanical set)
- Supervise Running Open Hole Logging in Deviated & Vertical wells. (E/L & LWD).
- Supervise Running & Cementing All Casing Sizes, Mechanical or Hydraulic Liner Hanger.
- Calculate Hydraulics to Improve Drilling Parameters. Work-over Experience
- Dealing with high pressure Gas wells , Killing The Well with Reverse Out Circ. , Long Way Circ. & Bull Heading Techniques).
- Supervising CSG GUN , THR TBG GUN (over balance) & TCP Perforation Jobs (Shoot & Stay, Shoot & Drop & Shoot & Pull) Using Under balance through N2 or Under balance disk.
- Running several types of well completion (Suck Rod Pump , ESP , Natural & Selective Natural Completion Using Straddle Packer and SSSV, Water injection Completion & Gas Completion)
- Successful Implementation of Numerous Remedial Cementing and Squeeze Operations (high & low pressures)
- Performing Remedial Casing leak or Slippage Using External Casing Patch
- Running Scab liner (Cementing & Non-cementing types) & Tie back packer jobs
- Working with different Wire-Line and Slick-line Operations.
- Supervising Cased Hole Fishing & Milling operations
- Supervising many formation Acidizing, & Hydraulic fracturing jobs.
- Working on re-stub the casing and well head changing.
- Supervising cased hole logs, interpretation CBL -VDL, CAST LOGS & MIT LOG. 1/3
- Supervising many cased hole DST jobs
- Dealing with different types of Tubing (EUE , New-Vam , Vam-Top , PH-6 , Beveled , Vam-Ace , FOX , etc)
- Dealing with different types of tools
- Halliburton DST string (RD, TST, OMNI, LPRN, SELECT TESTER Valves)
- Halliburton PHL , AHC & HPS Hydraulic packers . Halliburton RTTS & CHAMP Retrievable Packers
- Halliburton Permanent Packer (NWD) . Schlumberger Flex-Pac Retrievable Packer & Slip joint
- Halliburton Nipples (X-nipple & XN- nipple) & Baker Nipples (F-nipple & R-nipple)
- Sliding Sleeve Door SSD (XD & GL) . Halliburton ON-OFF tool & Expansion join

CERTIFICATIONS [PROFESSIONAL – LANGUAGE]

Well Sharp Certification – International Association of Drilling Contractors (IADC) :

- Certification Number: 41E48FDC-29E9C1
- Valid from 1st February 2024 to 1st February 2026

Helicopter Underwater Escape Training (HUET):

- Certification Number: TSTC04930
- Valid from 14th March 2024 to 10th March 2028

IELTS – International English Language Testing System:

- Academic Module

Berlitz English Proficiency Certification:

- Level 7 (Advanced proficiency in English)

HONORS & AWARDS

Published Research in International Journals [June, 2019]: **Jun, 2019**

- Authored a paper titled "Modeling Hydraulic Fracturing of Deep Shale Gas Reservoirs at HPHT Conditions" in the International Journal of Academic and Applied Research (IJAAR).

National Leadership Summit (NLS) – American University in Cairo (AUC) **Feb, 2012**

- Selected to participate in the prestigious summit after achieving an excellent score in its English proficiency test.

Top High School Graduate in Menia Governorate: **May, 2009**

- Achieved 1st place in the Menia governorate with a total score of 99.9% in high school

Intelligence & Fast Thinking Competition **Nov 2007**

- Secured 2nd place with a minimal margin of 0.015 points from the first position in a highly competitive problem-solving contest.

ADVANCED TECHNICAL TRAINING & MEMBERSHIPS

Caesar-Trade for Market Trading in Currencies **Oct 2014 – Present**

- Conducted in-depth market analysis and provided strategic insights for currency trading.

Bayan-Tech s TranslatorCafe.com – Professional Translator s Interpreter **Dec 2014 – Present**

- Provided translation and interpretation services for clients in the petrochemical and technical industries.

American Association of Petroleum Geologists (AAPG) – Academic Public Relations Coordinator **May 2014**

- Managed academic events, workshops, and industry networking sessions.

Society of Freedom for Development (SFD) **Apr 2014**

- Volunteered in organizing educational programs, computer training, and community awareness initiatives.

Schlumberger – Introduction to SLB Simulators **Jan 2014**

Completed advanced training on SLB simulators to enhance drilling efficiency and optimize well control practices.

Belayium Petroleum Company (Petro-Bel) **Sep 2013**

- Hands-on training in directional drilling, fishing operations, BOP repair, and junk mill procedures.

Sino-Tharwa Drilling Company (ST) **Jul 2013**

- Comprehensive training in rig mobilization, drilling to total depth (both vertical and directional), casing, cementing, and coiled tubing operations.

Shell – Drilling Optimization **Jun 2013**

- Attended a specialized course focused on optimizing drilling techniques for operational efficiency.

May 2013

Society of Petroleum Engineers (SPE) – Academic Public Relations Coordinator

- Organized seminars and public relations activities to promote petroleum engineering best practices.

NAPESCO Company

May 2013

- Practical training on the use of advanced fishing tools for recovering lost drilling equipment.

Oil and Gas Skills (OGS) – Drilling Practice and Optimization

Mar 2013

- Completed certified training on drilling practices, focusing on optimizing well parameters.

Weatherford – Surface Mud Logging and Hydraulics

Dec 2012

- Participated in training on surface mud logging and drilling fluid hydraulics.

SKILLS

Soft Skills

Leadership & Team Management:

- Proven team leader with the ability to manage drilling crews and multidisciplinary teams, ensuring smooth project execution under high-pressure conditions.

Effective Communication & Collaboration:

- Strong verbal and written communication skills, capable of conveying technical concepts to diverse stakeholders and fostering teamwork in cross-cultural environments.

Problem-Solving & Creativity:

- Talented problem solver with a creative approach to overcoming drilling challenges and optimizing operational efficiency.

Adaptability & Flexibility:

- Able to travel and adapt to various work environments, both onshore and offshore, with ease.

Self-Motivation & Continuous Improvement:

- Highly self-motivated with a passion for continuous learning, consistently seeking ways to enhance skills and stay updated on industry best practices.

Analytical Thinking & Attention to Detail:

- Excellent analytical abilities, with a keen eye for detail in safety protocols, well planning, and project documentation.

Time Management & Prioritization:

- Efficient in managing time-sensitive projects, ensuring deadlines are met while maintaining high-quality standards.

Technical Skills

Drilling Software s Tools

- SLB Simulators, MWD (Measurement While Drilling), LWD (Logging While Drilling), Baker-Schlumberger PowerDrive Systems

Well Control s Completion

- Expertise in well control techniques, including high-pressure gas wells, reverse circulation, bull heading, and remedial cementing operations

Advanced Drilling Fluids Management

- Experience with various drilling fluid systems: Water-Based Muds (Spud Mud, Gel Mud, KCl/Polymer), Oil-Based Muds, and Ultra-Drill Muds

Hydraulic Fracturing s Acidizing

- Extensive experience in formation acidizing, hydraulic fracturing jobs, and optimization of fracturing parameters for HPHT (High Pressure, High Temperature) reservoirs

Cased Hole s Open Hole Operations

- Running and interpreting cased hole logs (CBL-VDL, CAST, MIT Logs) and open hole logging in both deviated and vertical wells

Fishing & Well Intervention

- Proficient in cased hole and open hole fishing techniques, including the use of whipstock, scab liners, and external casing patches

Completion Tools & Techniques

- Expertise in running various completion systems: ESP, Sucker Rod Pumps, Natural and Selective Completions, and Water/Gas Injection Completions

Mechanical & Hydraulic Tools

- Skilled in using Halliburton DST strings, Hydraulic Packers (AHC, HPS), Retrievable Packers (RTTS Champ), and ON/OFF tools

Software Proficiency

- VBA (Visual Basic for Applications), Microsoft Office Suite (Excel, Word, PowerPoint), AutoCAD

LANGUAGES

- Arabic (Native)
- English: Fluent
- German: Intermediate proficiency

RESEARCH & PUBLICATIONS

"Modeling Hydraulic Fracturing of Deep Shale Gas Reservoirs at HPHT Conditions":

Published in the International Journal of Academic and Applied Research (IJAAR), Vol. 3, Issue 6, June 2019.

[Read Paper](#)

This research focuses on optimizing hydraulic fracturing techniques for high-pressure, high-temperature shale gas reservoirs, providing insights into improving reservoir stimulation and gas recovery.

SPE Paper – Society of Petroleum Engineers

Paper Number: 217002-

MS [Access Paper](#)

A comprehensive study on innovative drilling techniques and their impact on well productivity in challenging environments.

TV Interview on Hydraulic Fracturing Innovations

[Watch Interview](#)

Featured on Nile TV to discuss the latest advancements in hydraulic fracturing and its applications in the Egyptian petroleum sector.

Various Articles in National Journals

Published research articles in prominent Egyptian journals covering innovative drilling techniques and shale gas extraction.

Links:

- ♦ [Al Masry Al Youm](#)
- ♦ [Al Bawabh News](#)
- ♦ [Dostor](#)