Ahmed N. Al Fahdi

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PROFESSIONAL SUMMARY

Mechanical engineering graduate with exposure to oil and gas operations spanning upstream and midstream activities. Trained in upstream well completion and production through wireline logging and TCP operations, with midstream experience in pipeline design, construction, and integrity management. Familiar with engineering software including Ansys, SolidWorks, and mathematical tools (Mathcad, SMath), alongside automation systems including PLC programming. Safety-certified (H2S/SO2) for hazardous oil and gas environments, with training in safe handling of explosives and radioactive materials according to industry standards and regulations. Eager to contribute and further develop technical skills in mechanical or petroleum engineering roles within the energy sector.

EDUCATION

German University of Technology in Oman (GUtech)   Halban, Oman
Bachelor of Science in Mechanical Engineering   *Jan 2018 — June 2023*
- Dean's List (Spring 2023, Winter 2022)

Pennsylvania State University   University Park, PA
Coursework toward B.S., Materials Science and Engineering   *Jan 2013 — May 2017*

TECHNICAL SKILLS

- Engineering software: Ansys (simulation), SolidWorks (CAD/CAM/CAE), Mathcad, SMath
- Scripting & automation: PowerShell, Bash; PLC programming; SBC prototyping
- Systems: Windows and Linux; Docker; documentation with LaTeX/Markdown/Typst
- Professional skills: Team collaboration, cross-functional communication, problem-solving, time management
- Languages: English (fluent, IELTS 7.0), Arabic (native)

PROFESSIONAL EXPERIENCE

TCP & Wireline Engineering Training   May 2024 — Nov 2024
Ray Group   *Marmul Oil Field / Nizwa Workshop*
- Completed OPAL (EMDAAD) six-month program covering wireline logging and TCP operations
- Supported open- and cased-hole logging (SP, Sonic, Resistivity, Density, Neutron, CBL, MIT)
- Prepared/assembled TCP strings (gun systems, firing heads, packers/BPVs) following HES explosive-handling procedures for HMX, RDX, and PENT explosives
- Assisted with fiber-optic perforation setups and pre-job readiness checks/documentation

Pipeline Engineering Training   Oct 2021 — Jul 2022
PDO   *MAF / Fahud / Qarn Alam*
- One-year EIDAAD program across pipeline design, construction, and integrity management
- Produced design calculations (wall thickness, buoyancy, upheaval buckling, road crossings) and alignment drawings to ASME B31.4/B31.8
- Supported construction workflows: hydrostatic testing, NDT coordination, and documentation (HSE Plan, QA/QC, ITP, AFC)
- Contributed to concept studies (CAPEX/OPEX, route selection) and simulations (PIPSIM, Pipeline Studio, OLGA); performed material/corrosion assessments

PROFESSIONAL CERTIFICATIONS

- H2S & SO2 Entry Permit
- ISO 45001:2018 (2024)
- IELTS 7.0
- MTL from RWTH Aachen University