

RAYAN AHMED

Mechanical Engineer

📍 Saudi Arabia | ✉ RayanAhmedt@outlook.com | 📞 +966 568009534 | [inLinkedIn](#)

SUMMARY

Fresh Mechanical Engineering graduate from King Fahd University of Petroleum & Minerals (KFUPM), with hands-on training in oil & gas operations, condition monitoring, and energy harvesting systems. Experienced with API standards, industrial maintenance, and ERP workflow planning. Seeking to apply technical and analytical skills in industrial and engineering projects.

EXPERIENCE

Advanced Metal Company (AMCO) | Dammam, Saudi Arabia

Mechanical Engineering Intern | Jun 2024 – Aug 2024

- Based in the Engineering Department, reviewed and verified engineering drawings against customer specifications, API standards, and licensed connection requirements using SolidWorks / CAD, ensuring manufacturing and compliance prior to release to operation.
- Participated in piping/hydraulic system drawing reviews, ensuring correct pump discharge connections and flow direction compliance.
- Performed oilfield tubular operations (swaging, PWHT, threading, hydro testing) under API 5CT/7-1 standards.
- Supported centrifugal pump overhaul (inspection, balancing, fabrication), improving reliability of rotating equipment.
- Conducted QC inspections (visual, dimensional, hardness, MPI) ensuring compliance with standards.
- Rotated on licensing/certifications: VAM, Tenaris, Hydril.
- Gained exposure to CNC machining and precision welding for pressure control equipment.
- Completed a Sales Engineering rotation: assisted in reviewing client technical requirements, preparing quotations with engineering teams, and understanding the commercial flow between manufacturing, QC, and customer delivery.

Jalib Advanced | Jubail Industrial, Saudi Arabia (Sales Engineering Intern | Jul 2023 – Aug 2023)

- Managed RFQ processes for oil & gas components and engaged with approved vendors.
- Evaluated technical specifications and prepared compliant proposals.
- Negotiated pricing, lead times, and terms with suppliers.
- Tracked order execution against client requirements, ensuring timely delivery.

EDUCATION

King Fahd University of Petroleum & Minerals (KFUPM), Dhahran, Saudi Arabia

Bachelor of Science in Mechanical Engineering | May 2025

COURSE & LICENSES

- Member of Saudi Council of Engineers | Saudi Council of Engineers | July 2025.
- Introduction to SAP Basics and Navigation. | DCC-KFUPM | October 2025.
- Condition Based Monitoring Fundamentals | Schaeffler Technology | Dec 2025
- Lean Six Sigma White Belt | CSSC | Dec 2025

PROJECTS

Senior Design Project – Vibroharvest | KFUPM | 2024 – 2025

- Developed a hybrid vibration-based energy harvesting & monitoring system for centrifugal pumps.
- Applied pump performance curves, flow rate analysis, and head calculations to support design decisions.
- Conducted system modeling for fluid distribution performance, contributing to pipeline/pump system reliability.
- Integrated piezoelectric harvesting with monitoring of vibration, pressure, and temperature.
- Designed for use in chemical plants, power generation, and refineries.
- Enabled predictive maintenance and improved energy efficiency and operational reliability for rotating equipment.

SKILLS

SOFT

- Communication skills
- Organizational & planning
- Problem solving
- Fast learning
- Attention to detail

TECHNICAL

- Vibration Analysis
- Life Cycle Assessment (LCA, Simapro)
- MATLAB
- Microsoft Office
- Power BI

LANGUAGES

- Arabic - Native
- English - STEP Score: 87 / PBT TOEFL 512