Tariq Mansour Almehmadi

Mechanical Engineering | Process Optimization | Maintenance Engineer

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PROFESSIONAL PROFILE

Mechanical Engineering graduate and Licensed Engineer (Saudi Council of Engineers) with hands-on industrial training at Saudi Aramco Yanbu Refinery in maintenance support, rotating equipment, mechanical inspection, and reliability engineering. Knowledgeable in preventive and corrective maintenance, equipment troubleshooting, and engineering standards. Familiar with CMMS, maintenance planning, pumps, compressors, AutoCAD, and SolidWorks. Committed to improving equipment reliability, operational efficiency, and safe maintenance practices. Seeking opportunities as a Mechanical, Maintenance, Reliability, or Rotating Equipment Engineer.

PROFESSIONAL EXPERIENCE

Aramco | Saudi Arabia

Trainee | Maintenance Shared Support Services (MSSSD) | Yanbu Refinery | August 2023 – November 2023.

- Supported preventive and corrective maintenance of centrifugal pumps and rotating equipment.
- Conducted equipment inspections, troubleshooting, hydrostatic testing, shaft runout measurements, and dimensional inspections to verify equipment integrity and reliability.
- Assisted in Root Cause Analysis (RCA) and reliability improvement initiatives to support equipment performance.
- Collaborated with maintenance and QA/QC teams to ensure compliance with engineering standards, safety procedures, and quality requirements.

ACADEMIC BACKGROUND

University of Technology Malaysia | Malaysia

Bachelor of Engineering in Mechanical Engineering | 2020 – 2025.

CERTIFICATIONS & COURSES

- Registered with the Saudi Council of Engineers (SCE).
- Fundamentals of Maintenance & Reliability Management (10.5 Hours) | Udemy | May 2026.
- Basic Computerized Maintenance Management System (CMMS) (3.5 Hours) | Udemy | April 2026.
- Occupational Health & Safety (OSHA Standards, 30 hours) | Atwaar Higher Training Academy | July 2025.
- SolidWorks 3D Design | Doroob Platform | 2021.

PROJECTS

- **Smart Lobster Breeding System (SLABS V3).**
- Designed and developed an automated freshwater lobster breeding system using Raspberry Pi.
- Integrated automated feeding and sustainable water filtration to improve operational efficiency.
- Performed SolidWorks modelling and structural analysis to verify design integrity and system stability.
- Applied engineering design principles, problem-solving, and system optimization techniques throughout project development.

- **Prosthetic Hand Design.**
- Designed and developed a 3D-printed prosthetic hand prototype capable of gripping objects up to 4.5 kg.
- Implemented a servo-driven actuation system using fishing line tendon mechanisms and a switch-based control interface.
- Focused on creating a cost-effective and functional assistive device suitable for practical everyday use.

SKILLS

Strategic & Analytical Thinking
- Process Optimization.
- Equipment Maintenance.
- Energy Systems Design.
- Safety Compliance.
- Mechanical Troubleshooting.

Leadership & Team Management.
- Project Coordination.
- Team Leadership.
- Operational Planning.
- Resource Management.

Legal & Compliance Expertise
- Regulatory Compliance.
- Safety Standards Enforcement.
- Risk Mitigation.
- Policy Development.
- Occupational Safety.

Technical & Productivity Tools.
- Microsoft Office Suite.
- SolidWorks 3D Design.
- AutoCAD Modeling.
- Project Management Tools.

LANGUAGES

- Arabic.
- English.