

Mohammed Abdullah Alqarni

Mechanical Engineer | Design Engineer | Production & Manufacturing

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PROFILE

Mechanical Engineering graduate with Production Engineer internship experience. Proficient in SolidWorks, FEA, and DFM/DFA through academic and freelance projects, with programming skills in Python, MATLAB, and VBA for analysis and automation. Focused on improving equipment reliability and delivering design solutions that consistently outperform expectations.

Experience

Mechanical Engineer Intern – Production Department

Unicharm Middle East

January 2026-May 2026

- Achieved target operational KPI by increasing machine efficiency from 85% to 94% within two weeks through data-driven analysis and corrective actions
- Achieved 30% reduction in process time by analyzing workflow and implementing Kaizen-based improvements to eliminate unnecessary motion (Muda)
- Developed a conceptual FEA model to analyze potential failure points and improve component reliability, applying stress analysis principles using SolidWorks Simulation

Hybrid Solar Desalination System – Graduation Project

Imam Mohammad Ibn Saud University

January 2025–December 2025

- Designed and manufactured the system using SolidWorks with precise dimensional planning and DFM/DFA principles, reducing fabrication time and enabling full system assembly within 4 days
- Achieved a 2% productivity improvement over baseline research results through mechanical design optimization and performance analysis
- Validated design reliability through 72-hour continuous testing using Arduino-based monitoring, confirming stable operation under sustained conditions
- Developed automated reporting tools using Excel VBA and performed simulations using COMSOL, MATLAB, and Python.

Education & Certifications

Bachelor of Mechanical Engineering

Imam Mohammad Ibn Saud Islamic University – Riyadh

January 2026

Lean Six Sigma Green Belt

The Council for Six Sigma Certification (CSSC)

April 2026

Certified Associate in Project Management (CAPM)

Project Management Institute (PMI)

In progress

SKILLS

Leadership: Team Collaboration | Technical Communication | Problem-Solving | Analytical Thinking

Strategy: Reliability Improvement | Root Cause Analysis | Failure Investigation | Design Optimization

Simulation & Engineering Analysis: FEA | CFD | Stress Analysis | Mechanical Modeling | Design Validation

Tools: SolidWorks | COMSOL Multiphysics | ANSYS | AutoCAD | MATLAB | Python