

MAJED ALMALKI

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PROFESSIONAL SUMMARY

Mechanical Engineering graduate (KAU, 2025) with multidisciplinary experience in infrastructure construction, maintenance & reliability, and mechanical design. Skilled in SolidWorks, ANSYS, and reverse engineering, with additional expertise in non-destructive testing (NDT), vibration analysis, and cost control. Practical exposure to site coordination, production planning, and digital prototyping, with proven ability to deliver projects on time and within budget. Passionate about contributing to engineering teams in construction, operations, manufacturing, or quality assurance.

EDUCATION

King Abdulaziz University (KAU)

Jeddah, SA

Bachelor of Science in Mechanical Engineering (2025)

Relevant Coursework:

- Reverse Engineering | Non-Destructive Testing (NDT)

RELEVANT PROJECTS

Plastic Shredding Machine – (Senior Design Project)

- Led the design, fabrication, and assembly of a compact shredding machine to support recycling initiatives.
- Applied ANSYS stress analysis and optimization for durability and cost efficiency.
- Integrated maintenance and reliability considerations to ensure continuous operation.
- Coordinated a team of 4 students, delivering the project ahead of schedule.

INTERNSHIP EXPERIENCE

Construction Engineering Intern – Dar Al Riyadh

Jun 2025 – Aug 2025

- Assisted in site coordination for infrastructure systems (utilities, drainage, stormwater)
- Reviewed tender vs. as-built drawings, identifying discrepancies and reporting findings.
- Conducted field inspections of mechanical systems, supporting maintenance and reliability
- Prepared daily technical reports, contributing to project documentation accuracy.

PROFESSIONAL CERTIFICATION & DEVELOPMENT COURSES

- Construction Cost Estimating and Cost Control – Coursera (Columbia University)
- Basic and Advanced Excel – Online Course
- SolidWorks & ANSYS (Project-based applications)

SKILLS

Technical Skills

- Mechanical Design (SolidWorks, ANSYS, CAD/CAE, Reverse Engineering)
- Maintenance & Reliability (Preventive & Corrective Maintenance, NDT, Vibration Analysis)
- Construction Support (Site Coordination, As-Built Drawing Review, Cost Estimating)
- Production & Manufacturing (Production Planning, Root Cause Analysis, Process Optimization)

Soft Skills

- Problem-Solving | Teamwork | Communication
- Team Collaboration | Leadership | Technical Reporting

LANGUAGES

- Arabic
- English