

# Mazen Alraddadi

## Mechanical Engineer

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### Objective

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A highly motivated Mechanical Engineering graduate with First Class Honors, seeking a challenging role in a forward-thinking organization where I can apply my technical knowledge, problem-solving skills, and leadership mindset. Eager to contribute to impactful projects in design, manufacturing, or energy sectors, while continuously growing through real-world experience and professional development.

### Work Experience

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#### Mechanical Engineering Intern

Jun 2025 – Aug 2025

Talgo, Madinah, Saudi Arabia

- **Heavy Maintenance Department:** Ensured maintenance and overhaul processes complied with technical manuals and work orders. Assisted in modifying manuals and assigning technicians.
- **Quality Department:** Observed verification and approval processes for overhaul and maintenance operations, including Non-Destructive Testing (NDT) and report handling.

### Education

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B.S., Mechanical Engineering Taibah University, Madinah, Saudi Arabia.

Aug 2020 – Aug 2025

(GPA: 4.87/5.00), Excellent with 1<sup>st</sup> class honors.

### Projects

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#### Capstone Design Project: Design of an Irrigation Optimizing testing device.

Aug 2024 – Jun 2025

- Designed and manufactured an automated device to compare water and energy consumption between smart and time-based irrigation methods across multiple soil types operated by solar PV energy.
- Role: Team Leader & Project Designer.

#### Optimum Design of a Car Suspension System

Nov 2024 – Dec 2024

- Developed an optimized car suspension system using the KTC optimization method in MATLAB. Considered mass, deflection, torsion, and natural frequency as governing parameters.
- Role: Team Leader & Concept Developer.

### Skills

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- Personal: Problem Solving, Critical Thinking, Attention to Details, Teamwork and Collaboration.
- Software: SolidWorks, MATLAB, ADAMS view, LabVIEW, CNC software's, Arduino IDE, MS Office.

### Courses

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- OSHA 30-Hour General Industry Safety and Health Certificate - OSHAcademy, Jul 2025.
- Y 14.5- 2018 Dimensioning & Tolerancing Overview - ASME, Jun 2025.
- Nondestructive Examination Overview - ASME, Jun 2025.
- The Complete Hydraulic Course - Udemy, Jun 2025.
- Introduction to Metallurgy - Udemy, Jun 2025.
- 20 hours of safety training - Talgo, Jun 2025.
- University Elective Courses: Engineering Maintenance, HVAC systems, Renewable Energy Systems, Design Optimization.

### Languages

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- English (Full Professional Proficiency).
- Arabic (Native).

### Awards & Honors

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- Top Student award, Taibah University, Jun 2025.
- Mawhiba student throughout general education.