

# Khaled Naif Aljuaid

Mechanical Engineer

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## Professional Summary

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Mechanical Engineer with experience in the operation, maintenance, and reliability of mechanical systems, including pumps, generators, and tunnel facilities. Certified Maintenance & Reliability Technician (CMRT) and Certified Maintenance & Reliability Professional (CMRP) with the ability to improve performance, increase efficiency, and ensure reliability. Experienced in problem-solving, technical analysis, and applying practical solutions to support engineering projects.

## Experience

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### Abalkhail Consulting Engineers Company | Riyadh, Saudi Arabia.

#### Mechanical Engineer | Project for Supervising the Maintenance and Improvement of Bridges and Tunnels | Nov 2024 – Present.

- Supervise the operation and maintenance of pumps and generators to ensure optimal performance and efficiency.
- Monitor control systems and distribution panels, ensuring seamless integration with mechanical and electrical components.
- Analyze faults and technical issues, propose effective solutions to enhance reliability and performance.
- Conduct regular inspections and testing procedures to comply with quality and safety standards.
- Prepare technical reports and engineering recommendations to improve equipment performance and sustainability.
- Collaborate with technical and engineering teams to resolve operational challenges and enhance system efficiency.

### King Abdulaziz Hospital | Taif, Saudi Arabia.

#### Mechanical Engineer (Summer Internship) | Jun 2023 – Aug 2023.

- Monitored preventive and corrective maintenance of mechanical equipment and systems within the hospital.
- Assisted in inspecting and diagnosing mechanical faults and worked with the technical team to resolve them.
- Reviewed the operation and maintenance mechanisms of HVAC systems, cooling systems, and pumps to ensure operational efficiency.
- Participated in preparing technical reports.

## Education

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### Taif University | Taif, Saudi Arabia.

Bachelor's Degree in Mechanical Engineering | GPA: 3.58/4.00 | Overall Grade: Excellent with Second Honors | July 2019 – June 2024

Standardized Test of English Proficiency (STEP) | 88%.

## Professional Certification

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- Certified Maintenance & Reliability Technician (CMRT) – SMRP | 2025.
- Certified Maintenance & Reliability Professional (CMRP) – SMRP | 2026.

## Projects and Achievements

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### Early Inspection of Agricultural Products Using a Mobile Robot | Aug 2023 – May 2024.

- A mobile robot was designed that uses image processing to recognize plants and identify diseases.
- The robot can effectively treat diseases, ensuring optimal plant health and increasing productivity.
- Designed using SolidWorks for detailed 3D modeling and simulation.

## Courses and Certifications

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- OSHA Certification by NASP | Integrated Learning Training Center | 2024.
- Plumbing System Design | Integrated Learning Training Center | 2023.
- HVAC Design | Integrated Learning Training Center | 2023.
- Shop Drawing & Mechanical Site | Integrated Learning Training Center | 2023.
- Autodesk Revit Mechanical Electrical and Plumbing (MEP) Integrated Learning Training Center | 2023.
- Fire Fighting System Design | Integrated Learning Training Center | 2022.

## Achievement

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Saudi Council of engineering: Professional accreditation.

## Skills

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- Technology and software proficiency.
- Communication and negotiation skills.
- Planning and organization skills.
- Emotional intelligence.
- Engineering design skills.
- Data analysis skills.
- Inspection and maintenance.
- Control systems.
- Thermodynamics.
- Testing and evaluation skills.
- Additive manufacturing skills.
- Power generation technologies.
- Maintenance strategies skills.
- Regulatory standards.
- Environmental compliance.
- Critical thinking and problem-solving skills.
- Leadership and team management.
- Decision-making abilities.
- Risk assessment skills.
- Time management and adaptability.
- Teamwork and collaboration skills.

## Languages

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- Arabic language.
- English language.