

# Ahmed Almahasnah

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## Professional Summary

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Mechanical Engineering graduate from Al-Asala University, Dammam (2024), specialized in the fundamentals of HVAC system design, operation, and maintenance with a strong background in renewable energy applications. Capstone project focused on the development of biodiesel fuel from multiple feedstocks to enhance environmental performance in diesel engines. Completed a cooperative training program at Mirza Al-Jishi Company, contributing to the design, installation, and maintenance of HVAC systems for residential and commercial projects, including system calculations, thermal analysis, and performance testing aligned with industry standards. Certified member of the Saudi Council of Engineers with recognized professional accreditation. Seeking to apply technical knowledge and practical expertise in engineering projects that drive operational efficiency and sustainability.

## Education

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**Bachelor of Mechanical Engineering | Al-Asala University | Dammam | 2024**

- **Capstone Project:** The development of biodiesel fuel from various raw materials for diesel Engines.

## Professional Experience

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**Mechanical Engineering Trainee (Co-op Training) | Mirza Al-Jishi Company | Aug 2024 - Dec 2024**

- Assisted in the design, installation, and maintenance of HVAC systems for residential and commercial projects.
- Contributed to thermal load calculations and energy analysis to ensure operational efficiency.
- Prepared and documented technical reports for management review.
- Participated in project meetings and provided technical input to address engineering challenges.
- Supported performance testing activities and verified compliance with technical standards and specifications.

## Training Courses

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- **Powerplants**
- **HVAC Systems**
- **Renewable Energy**
- **Manufacturing Processes**
- **AutoCAD Applications**

## Certifications

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- **Saudi Council of Engineers Certificate.**

## Skills

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### Soft Skills:

Analytical Thinking | Time Management | Effective Communication | Work Under Pressure | Teamwork | Flexibility | Accuracy Monitoring | Attention to Detail | Deadline Commitment | Continuous Learning | Adaptability.

### Practical Skills:

Project Management | Technical Report Preparation | Engineering Drawing Review | Quality Control | Data Analysis | Technical Specification Writing | Performance Testing | Technical Proposal Preparation | Meeting Management | Project Execution Follow-up | Team Coordination | Engineering Solution Development.

### Technical Skills:

HVAC Systems | AutoCAD | Energy Analysis | Performance Testing | Powerplants | Manufacturing Processes | Renewable Energy Applications | System Calculations | Microsoft Office | Mechanical Design | Maintenance Planning | Engineering Standards | Microsoft Excel | Microsoft Word | Microsoft PowerPoint | Microsoft Outlook | Microsoft Teams | Windows.

## Languages

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- Arabic: Native
- English: Fluent