

# Mohammed Alrashed

## Electrical Engineer

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## SUMMARY

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I'm a recent Electrical Engineering graduate with a strong passion for turning what I've learned into real-world solutions. I enjoy learning by doing, working with others, and getting involved in projects that challenge me and help me grow. I'm especially interested in power systems, control, and smart technologies. I believe in teamwork, adapt quickly to new environments, and always strive to be a valuable part of any team I join.

## ADDITIONAL INFORMATION

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**Software:** NI Multisim, AutoCAD, C-Language, MATLAB, Emu8086 (Assembly language), Tinkercad, LaTeX, MPLAB, Arduino IDE, Microsoft Office Apps, ISIS

**Skills:** Teamwork and Collaboration, Communication Skills.

**Languages:** Arabic, English.

**Interests:** Electric Energy & Power System, Renewable and Sustainable Energy

## EDUCATION

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**King Faisal University**

**Aug 2020 – May 2025**

Bachelor's degree in Electrical Engineering

**Honors and Awards:** Achieved Excellence in the University Readiness Assessment conducted by King Faisal University

**English Courses:** English Composition I, English Composition II, Fundamentals of Speech Communication, Technical writing.

**Electrical Courses:** Electric Circuits, Electronics, Digital Logic Design, Microprocessors, Electric Energy & Power Systems, Signals and Systems, Engineering Electromagnetism, etc.

**Elective Courses:** Special Topics (Renewable Energy Topics), Power Systems, Optical Fiber Communication

## SENIOR DESIGN PROJECT

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### Smart AI Assistant System

Developed a multimodal smart assistant using Raspberry Pi 5 and ESP32, integrating sensors (PIR, LDR, SHT), a camera, microphone, speaker, and a 7-inch display. The system supports voice and visual interaction with real-time environmental monitoring. A web-based interface was built using React, with Google Gemini API integrated for advanced AI processing.

## WORK EXPERIENCE

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- **Electrical Engineer Trainee**

**Jul 2024 – Aug 2024**

**Eram Power Electronics Company, Dammam, Saudi Arabia**

### UPS Systems Design, Installation & Testing

I acquired hands-on experience in the design, installation, and testing of Uninterruptible Power Supply (UPS) systems. I participated in multiple departments, including:

- **Safety Orientation:** I learned industrial safety protocols, evacuation procedures, and fire extinguisher types.
- **Material Handling & QC:** I observed procedures for receiving, inspecting, storing, and transferring components.
- **Mechanical Department:** I assembled UPS frames, installed MCCBs, prepared enclosures, and practiced safe material handling.
- **Wiring Department:** I interpreted wiring diagrams, performed system wiring, applied insulation, and implemented grounding techniques.
- **Testing Department:** I conducted battery checks, load testing, and system diagnostics using meters and analysis tools.

I developed a strong understanding of UPS components such as batteries, inverters, rectifiers, controllers, and alarm systems. I strengthened my problem-solving skills and learned best practices in system maintenance and performance optimization.