Khalid Mohamed Alshehri

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CAREER OBJECTIVE

I'm an Electrical Engineering graduate looking to start my professional journey in a role where I can apply what I've learned across different areas like power, electronics, control, and communication systems. I'm especially interested in practical, hands-on work and solving real engineering problems. I'm ready to learn, contribute, and grow in a team environment where I can build strong technical and professional experience.

EXPERIENCE

Saudi Electricity Company (SEC). | Saudi Arabia

Duration: June 23, 2024 – August 18, 2024

Description:

Trained across four main departments:

- Maintenance
- Planning & Construction
- Operation
- Smart Meters

Participated in site visits, learned operational and maintenance procedures, and explored the smart metering infrastructure and electrical systems.

EDUCATION

Taif University | Saudi Arabia

Electrical Engineering Student | 2020 – 2025.

GPA: 3.33 out of 4 – Grade: Very Good – Second Class Honors.

PROJECTS

Microwave for Breast Cancer Detection

Designed and tested a microwave-based system to detect breast tumors by analyzing electromagnetic signal changes caused by tissue properties. The project included antenna design, simulation using CST, physical model fabrication, and successful validation through experimental testing—offering a non-invasive, low-cost alternative for early breast cancer detection.

Plant Leaf Disease Classification Using CNN and MobileNetV2

Built an AI model that can automatically identify plant leaf diseases by analyzing images. The project used deep learning with CNN and MobileNetV2 to help detect issues early and assist farmers in making faster decisions. The model was trained to distinguish between healthy and unhealthy leaves and proved effective in practical testing. This work shows how AI can be used in agriculture to improve productivity and reduce loss without relying on expert inspection.

- **Certifications & Courses:**
  - Project Management Professional (PMP) – 35 Hours – Al-Khabeer Institute
  - Solar Energy – The Present and the Future – Saudi Council of Engineers
  - Agile & Scrum Project Management – Saudi Council of Engineers
  - LV Sub-Main & Final Distribution Boards & DIN-Rail Products – Saudi Council of Engineers
  - Electrical Vehicle Chargers (EVC's) – Saudi Council of Engineers
  - ABB e-Design (DOC) – Network Design/Calculation Tool – Saudi Council of Engineers
  - LV Circuit Breakers (ACB's, MCCB's) – Saudi Council of Engineers
  - Power Quality – Saudi Council of Engineers
  - Electronics Camp – IEEE & GDSC, Taif University

- **Technical Skills:**
  - Programming Languages: Python, MATLAB, C#
  - Software & Tools: AutoCAD, Microsoft Office, Multisim, CST Studio Suite, ANSYS HFSS
  - Technical Abilities: Circuit design and simulation, electromagnetic modeling, signal analysis, reading electrical schematics, building and testing AI models using CNNs and MobileNetV2

- **Soft skills**:
  - Excellent teamwork and collaboration
  - Strong communication and presentation skills
  - Analytical thinking and problem-solving
  - Ability to work under pressure and meet deadlines
  - Fast learner and self-motivated with attention to detail

- **Languages**:
  - Arabic
  - English