

MOHAMMED AHMED ALHARTHI

+966 561340316 | alharthi.engineering@gmail.com | [linkedin.com/in/mohammed-ae](https://www.linkedin.com/in/mohammed-ae) | Saudi Arabia

PROFESSIONAL SUMMARY

Recent Electrical Engineering graduate with a solid academic background and interest in power systems, safety standards, and practical problem-solving. Familiar with project coordination, teamwork, and technical tools such as MATLAB and AutoCAD. Currently seeking opportunities to gain practical experience and develop skills in real-world engineering environments.

EDUCATION

Bachelor of Science in Electrical Engineering

Taif University, Saudi Arabia. Expected Graduation: June 2025

WORK EXPERIENCE

Summer Training Program

Saudi Electricity Company, Saudi Arabia | June 2024 – August 2024

- Completed cooperative training in the Power Distribution Division and participated in hands-on maintenance operations.
- Gained practical exposure to electrical distribution systems, field inspections, and safety protocols.
- Assisted in preparing technical documentation and conducting site walkthroughs with engineering teams.
- Demonstrated strong collaboration, proactive initiative, and problem-solving capabilities in daily tasks.

CERTIFICATIONS

- Certified Associate in Project Management (CAPM) – PMI, Apr 2025
- OSHA 30-Hour Safety & Health Certification – OSHA Academy, Oct 2023
- Distribution Transformers: Operation & Applications – ECTC, Taif Univ. (TVTC-Certified), Aug 2022

COURSES

- Power Quality – Saudi Council of Engineers
- Building AI (Advanced Level) – University of Helsinki
- Excel Functions for Engineering Applications – Kfpl Training
- Engineering Professionalism and Ethics – College of Engineering, Taif University

PROJECTS

Senior Project: Optimization of Renewable Energy System with Unit Commitment

Developed and optimized a hybrid energy system for a university campus, integrating solar PV, hydrogen storage, and the main grid. Set specific operational constraints and renewable energy contribution targets for each scenario. Modeled system performance using MATLAB and GAMS, focusing on minimizing total cost and ensuring reliable supply. Analyzed different usage cases to evaluate the impact of various renewable penetration levels and grid pricing strategies. Gained experience in system simulation, data analysis, and technical reporting.

SKILLS

Technical Skills

- AutoCAD
- Microsoft Office
- Electrical Safety
- MATLAB

Soft Skills

- Problem Solving
- Adaptability
- Time Management
- Critical Thinking

LANGUAGES

Arabic (Native)

English (Professional working proficiency)