Fahad Aljohani

+966 532 931 679 Fah_Aljohani@outlook.com Saudi Arabia

PROFESSIONAL SUMMARY

I leverage my academic knowledge and practical experience from renewable energy, electronics, control systems, and nanotechnology projects, alongside internship experience in electrical system maintenance and design, to develop and implement integrated solutions that enhance digital transformation and operational efficiency, focusing on improving sustainable system performance, supporting organizational strategic objectives, and delivering measurable solutions that enhance performance and customer experience.

EXPERIENCE

Al Madinah Region Development Authority (MDA) | Al Madinah, Saudi Arabia
Electrical Maintenance Intern | January 2025 – March 2025

- Contributed to troubleshooting electrical systems at Quba Mosque under supervision consistently.
- Engaged in voltage inspections supporting electrical repairs effectively under professional guidance.
- Participated in commissioning electrical systems while learning control panel operations reliably.
- Facilitated preventive maintenance schedules contributing to overall system stability performance.
- Monitored technical teams collaboration to resolve infrastructure issues and documentation.
- Observed safety protocols while reinforcing best practices promoting compliance culture consistently.

EDUCATION

Taibah University | Saudi Arabia
Bachelor of Science in Electrical Engineering (ABET-Accredited) | 2019 – 2025.

CERTIFICATES & COURSES

- National Safety Council Construction Industry Compliance Guidelines (NSC) | 30 Hours.
- Practical Training Certificate in Electrical Engineering | Madinah Region Development Authority (MDA) | 2 Months.

MEMBERSHIPS

- Electrical Engineer | Saudi Council of Engineers (SCE).

PROJECTS

Capstone Design Project | Taibah University | April 2024 – November 2024.

- Developed solar cell prototypes with nanostructures simulating operational performance accurately.
- Evaluated simulation results predicting device energy efficiency and electrical behavior precisely.

Huffman Coding for Bandwidth Optimization | Taibah University | 2024.

- Engineered MATLAB-based Huffman coding solution maximizing digital data transmission.
- Optimized bandwidth utilization for text and numerical datasets systematically improving throughput.

Environmental Monitoring System | Taibah University | 2023.

- Constructed VHDL sensor network tracking indoor environmental parameters across multiple rooms.
- Analyzed collected data providing actionable insight for room-specific climate management.

Sensor-Based Parking Assistance System | Taibah University | 2021.

- Designed intelligent digital system classifying vehicles and guiding them effectively.
- Directed vehicles to designated spaces improving organizational parking management efficiency.

SKILLS

- Electrical Systems Design.
- Preventive Maintenance Execution.
- Operational Efficiency Optimization.
- Team Leadership and Coordination.
- Maintenance Planning Strategies.
- Engineering Project Management.
- Technical Problem Analysis.
- Continuous Engineering Innovation.
- Strategic Decision Making.
- Professional Communication.

LANGUAGE

- Arabic.
- English.