

Hassan Mohammed Alsaffar

+966 550 821 597

Hassan23h0@gmail.com

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Saudi Arabia

SUMMARY

As a highly skilled Electrical Engineer, I bring hands-on experience in high-voltage systems, power distribution, and maintenance across industrial environments. With a strong academic foundation and a record of certifications, I specialize in substation operations and energy solutions. I have successfully led teams on ARAMCO projects and contributed to system reliability and performance enhancements. My technical expertise is backed by strong problem-solving, communication, and project management abilities.

EXPERIENCE

Al Ittefaq Steel Products Company | Saudi Arabia

Senior Electrical Technician - Electrical Maintenance Department (230kV Substation) | Sep 2024 – Sep 2025.

- Perform preventive and corrective maintenance on 230kV high-voltage substations.
- Troubleshoot and repair power transformers, circuit breakers, switchgear, and protection relays.
- Conduct routine inspections, functional testing, and diagnostic evaluations.
- Collaborate with engineers and cross-functional teams on electrical upgrades, system improvements.
- Monitor and analyze equipment performance data to proactively identify risks.
- Ensure compliance with electrical standards (NEC, IEC) and internal safety protocols.
- Maintain detailed technical reports, inspection logs, and maintenance records.
- Implement lockout-tagout (LOTO) procedures during maintenance operations.
- Support root cause analysis and contribute to reliability improvement initiatives.

Hadi Hamad Al Hammam Contracting Company | Saudi Arabia

Manufacturing Supervisor – Aramco Project | June 2021 – September 2024.

- Managed daily workforce scheduling and resource distribution to meet strict production deadlines.
- Led and supervised production teams, ensuring adherence to Aramco's safety.
- Prepared detailed daily and weekly reports on production output, incidents, and KPIs.
- Conducted toolbox talks and safety briefings to enforce regulatory compliance and hazard awareness.
- Trained new hires and existing staff on standard operating procedures and safety protocols.
- Maintained documentation of performance metrics, incident logs, and quality control records.
- Coordinated with engineering and logistics teams for smooth material flow and project continuity.
- Oversaw the calibration and maintenance of tools and equipment on-site.
- Resolved operational issues and identified process improvements to enhance production efficiency.
- Ensured full compliance with Aramco contract requirements and project deliverables.

Sergas Contracting Company | Saudi Arabia

Electrical Technician | March 2021 – May 2021.

- Diagnosed and resolved electrical faults in commercial and industrial systems.
- Performed continuity, insulation resistance, and voltage drop tests on electrical circuits.
- Created comprehensive service reports, documenting issues, fixes, and recommendations.
- Assisted in layout planning and installation of electrical wiring and conduit systems.
- Conducted maintenance and testing on switchboards, panels, and distribution boxes.
- Followed strict safety procedures, including the use of PPE and safe work practices at elevated heights.
- Provided technical support during scheduled shutdowns and emergency maintenance calls.

EDUCATION

Technical and Vocational Training Corporation | Saudi Arabia

Bachelor's Degree in Power and Electrical Machines Engineering | GPA 4.75 / 5 With First Class Honors | 2025.

Jubail Industrial College | Saudi Arabia

Associate's Degree in Electrical Power Engineering Technology | 2021.

CERTIFICATIONS AND COURSES

- Electrical Engineering Technology Certificate | Saudi Council of Engineers | August 2025.
- Motor & Variable Speed Drives | Al-Khobraa | February 2025.
- Electrical Power Distribution with Auto CAD, EXCEL, DIALUX, ETAP | 2025
- Complete Solar Energy PV Design Course From Zero To Hero | 2025
- OSHA Control of Hazardous Energy and Lock Out Tag Out | 2025
- LLM Engineering , Master AI, Large Language Models & Agents | 2025
- Professional Certificate in Procurement and Purchasing | 2025
- Primavera P6 Project Planning and Scheduling Masterclass | 2025

MEMBERSHIPS

- Member | Saudi Council of Engineers | No: 856170.

PROJECTS

- Graduation project | Contributed as a core team member to the Capstone Project: "Smart Energy Monitoring System," focused on real-time tracking, analysis, and optimization of energy consumption using IoT-based solutions to promote energy efficiency and sustainability.

VOLUNTEERING

- Member of the Electrical Engineering Society.
- Participated in the Robotics and Automation Club.
- Regular participant in national technical workshops and safety training sessions.
- Volunteered in technical exhibitions and college orientation programs.

SKILLS

● Hard Skills:

- High Voltage Systems Maintenance.
- Power Distribution and Transmission.
- Electrical Circuit Design (AC/DC).
- AutoCAD Electrical / EPLAN.
- Power System Analysis.
- Project Management.
- Microsoft Office Skills.

● Soft Skills:

- Problem-Solving.
- Critical Thinking.
- Effective Communication.
- Time Management.
- Collaboration and Teamwork.
- Flexibility and Adaptability.

LANGUAGES

- Arabic.
- English (Fluent)