

Mohammad Alkurdi

Electrical Engineer

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Saudi Arabia, SA

Professional Electrical Engineer with 23+ years of experience delivering large-scale infrastructure, residential, and commercial projects. Specialized in project management, design review, construction supervision, and testing and commissioning of electrical and low-current systems. Proven record supporting mega-projects for Saudi Aramco, Royal Commission, and BPCC, ensuring compliance with NEC, IEC, NFPA, SEC, SBC and delivering projects on time and within budget.

Work Experience

Lead Electrical Engineer

Jan 2024 - Feb 2026

Solution Leaders Fayez Engineering (SLFE)

Project: AMAAD Business Park (BPCC, real estate development project)

- Directed electrical and low-current works for a mixed-use development including residential apartments, office towers, hospitality, and retail.
- Monitored construction activities to ensure compliance with NEC, IEC, NFPA, SEC, and local codes.
- Oversaw testing and commissioning for building systems for seamless integration.
- Implemented material tracking and logistics strategies, reducing potential delays and shortages.
- Prepared weekly technical, progress, and risk reports to support executive project decisions.

Lead Electrical Engineer

Oct 2016 - Oct 2023

Turner International

Project: AJYAL South Dhahran Home Ownership Development (Saudi Aramco)

- Reviewed and coordinated electrical design drawings for all project stages — from concept (30%) to detailed (60%), final (90%), and construction-ready (100%) ensuring full compliance with engineering standards, design procedures, and regulatory requirements.
- Supervised installation of substations, MV/LV distribution networks, smart meters, and telecom systems.
- Evaluated and approved shop drawings, materials, method statements, and RFIs.
- Directed testing, commissioning, and project handover, ensuring timely delivery.
- Monitored and tracked the handover of all project completion documents (T&C, as-built drawings, O&M, letters of guarantee).

Electrical Construction Manager

Dec 2012 - Sep 2016

Al-Osais Contracting Company

Project: Royal Commission – Villas & Secondary Infrastructure (Royal Commission)

- Managed installation of electrical, low-current, and telecom systems for villas and infrastructure works.
- Directed teams of engineers and inspectors to ensure compliance with RC, SEC, NEC, IEC, and NFPA standards.
- Oversaw procurement, cable installation, substations, and street lighting to maintain project continuity.
- Secured permits and approvals from authority agencies, reducing schedule risks.

Resident Electrical Engineer*CDM Smith*

Oct 2011 - Oct 2012

Project: USAID Schools Construction & Rehabilitation Program

- Performed comprehensive reviews of electrical design documents throughout all design phases (concept, detailed, final, and construction), verifying conformance with NEC, IEC, and local construction codes and procedures.
- Oversaw electrical installation, testing, and commissioning for multiple school buildings.
- Performed field inspections, analyzed shop drawings, and ensured compliance with international standards.
- Monitored contractor progress and verified adherence to schedule and quality.

Senior Electrical Engineer*Arab International for Construction*

Oct 2010 - Oct 2011

- Executed electrical and telecommunications works for school and city infrastructure projects
- Reviewed shop drawings, material submittals, and subcontractor performance.

Electrical Site Engineer*Jamal Hassan & Partners*

Jun 2003 - Sep 2010

- Executed electrical construction for residential, commercial, and infrastructure projects
- Prepared BOQs, cost estimates, and bid proposals supporting successful tenders.
- Ensured compliance with approved drawings, method statements, and quality standards.

Electrical Design Engineer*Ministry of Public Works & Housing*

Feb 2002 - Feb 2003

- Designed electrical systems for government buildings (lighting, power, low-current).
- Prepared drawings, BOQs, and specifications aligned with national standards.

Core Skills

Project and Construction Management, Power Systems Expertise, System Design Review & Integration, Compliance with Standards, Codes & Regulations (NEC, IEC, NFPA), Testing, Commissioning, and Technical Validation, Team Leadership & Staff Development, Client Interface & Relationship Management, Complex Problem Solving & Critical Thinking, Effective Communication & Reporting

Education**Al-Balqa Applied University****Bachelor of Electrical Engineering**

Jul 2001

Certificates**Professional Electrical Engineer**

Saudi Council of Engineers

Feb 2014

Licensed Electrical Engineer

Jordan Engineers Association

Sep 2001