

AYMAN MOHAMMED ALSAYAGHI

ELECTRICAL ENGINEER

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Riyadh, Saudi Arabia

Summary

Electrical Engineer with hands-on experience in electrical design, technical office works, BIM modeling, and site supervision for residential, commercial, and high-rise projects in Saudi Arabia. Skilled in shop drawings, quantity surveying, technical submittals, coordination between disciplines, with strong knowledge of Saudi Building Code and project execution standards. Motivated and detail-oriented engineer with strong problem-solving, coordination, and project management abilities.

Experience

Elm & Memar for Contractors | Electrical Engineer

July 2024 – Now

○ Terra Business Oasis Project (Fit Out &Skeleton) Scope (280,000,000 SAR)

Electrical Technical Office and Site Engine

- Prepared and reviewed electrical shop drawings using Autodesk Revit.
- Developed and coordinated BIM models for electrical systems, including Power, Lighting, ELV, Fire Alarm, Earthing, and Low Current systems.
- Developed BIM models at **LOD 200, LOD 300, LOD 400, and LOD 500** in accordance with project BIM Execution Plan (BEP) and client requirements.
- Produced coordinated installation models for construction and fabrication purposes.
- Prepared and updated As-Built BIM Models (LOD 500) reflecting actual site installations.
- Performed interdisciplinary clash detection and coordination using Autodesk Navisworks Manage.
- Reviewed and resolved clashes between Electrical, Mechanical, Plumbing, Structural, and Architectural disciplines.
- Participated in BIM coordination meetings and implemented approved design modifications.
- Extracted material quantities (BOQ) from Revit models for procurement and project planning.
- Coordinated cable trays, conduits, containment systems, electrical rooms, and equipment layouts.
- Verified installation compliance with IFC drawings, shop drawings, project specifications, and BIM standards.
- Assisted in preparing project documentation, model deliverables, and final handover packages.
- Reviewed cable sizing, voltage drop calculations, and electrical load schedules.
- Coordinated with consultants, contractors, and subcontractors to ensure successful project execution.

○ Aramak Project (Three Towers) Skeleton Scope (90,000,000 SAR)

Electrical Technical Office and Site Engineer (Builder Work)

- Study the project documents including drawings, specifications, BOQ, RFI, correspondence...etc. to take into consideration all the project details during execution.
- Follow up the drawing submittals.
- Modify technical dwg quantity survey according to consultant requirements and send it to the contracting dep.
- Make Shope Drawings all Systems (Lighting, Power, Power Mech, Access Door, Public address, CO, BMS, CCTV, CBS, Cable Routing)
- Tendering Projects.
- Revising the subcontractor’s invoices according to BOQ.
- Ability of preparation of reports, work hard and work management.

○ Rafal Projects (Residential, Villas, Commercial) Budget (60,000,000 SAR)

Electrical Technical Office and Site Engineer (Builder Work & Fit Out)

- Study the project documents including drawings, specifications, BOQ, RFI, correspondence...etc. to take into consideration all the project details during execution.
- Electrical Shop drawing preparation by using Revit & AutoCAD design review order to achieve value engineering for projects.
- Follow up the Methode of Statement and drawing submittals.
- Modify technical dwg. / Variation orders / quantity survey according to consultant requirements and send it to the contracting dep.
- Make Shope Drawings all Systems (Lighting, Power, Power Mech,Access Door, Public address, BMS, CCTV, CBS)
- Make all Technical Calculations
- Maintain Technical Logs, Drawing register and submission trackers.
- Tendering Projects.
- Revising the subcontractor’s invoices according to BOQ.
- Ability of preparation of reports, work hard and work management.

○ Al-Dohyan Projects (2 Residential ,12 Villas) Skeleton Scope

Electrical Office and Site Engineer

- Executing shop drawings, preparing requisitions, and obtaining consultant approvals. -Preparing quantities and contractor invoices, as well as owner invoices.
- Creating as-built drawings and coordinating between electrical and mechanical systems. -Site coordination with mechanical, civil, and architectural departments.
- Delivering project milestones to the consultant and obtaining as-built approvals.
- Approving MIRs (Material Inspection Requests) for electrical supplies and obtaining consultant approvals.

Cellex Company Vision | Electrical Design Engineer-Jeddah

Oct 2023 – Apr 2024

- Managing the execution of building services as an Electrical Design Engineer including systems of Power, Cable Routing, Lighting, Fire Alarm, Data, Access Control, SMATIV, MATIV, and IPTV. Able to read design of hospitals, residential buildings, and villas. Working with cables routing and termination, Electrical Panels, testing & and commissioning, etc. capable of supervising detailed engineering works, coordinated shop drawings, technical submittals, liaison with consultants, coordinate with various disciplines and site supervision.

Enjaz, Company | Electrical Engineer

Jun 2022 - Jun 2023

- Managing the execution of building services as an MEP engineer like HVAC, Plumbing, power, lighting, Low Voltage. Capable of supervising detailed engineering works, coordinated shop drawings, technical submittals, liaison with consultants, coordinate with various disciplines and site supervision.

Education

Sana’a University, Yemen

Jun 2021

Bachelor of Mechatronics Engineering

Skills & Abilities

Project Management – Leadership – Communication – Coordination – Managing Team – Problem Solving – Technical Documentation – Adaptability – Critical Thinking – Decision Making – Troubleshooting – Power Distribution – Testing and Commissioning – Microsoft Office – AutoCAD – Revit – Navisworks- DIALUX.

Certificate & Training

• Advanced Course of Revit Electrical (Eduneers Training)	2026
• Electrical Safety	2026
• Electrical Distribution Design (Udemy)	2025
• Building management system (BMS) (Eduneers Training)	2025
• Autodesk Revit MEP Full Course in Arabic (Eduneers Training)	2024
• Process Data from Dirty to Clean (Coursera)	2024
• Upper-Intermediate English as a Second Language (Salor Traaining)	2023
• Prepare Data for Exploration Standards (Coursera)	2022
• Solar Energy and Electrical System Design (Coursera)	2022
• Critical Thinking for Better Judgment and Decision-Making (Coursera)	2022
• Project management principles, practices and systems (future learning)	2022

Languages

- Arabic: Native
- English: Very Good