

Sherif Mohamed Eltawel

Senior Electrical Engineer

Riyadh, KSA

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Professional Summary

Experienced Senior Electrical Design BIM Engineer with over 11 years of comprehensive expertise in electrical systems design, BIM modeling, and project management, including extensive experience working in Saudi Arabia. Proficient in local standards such as DPS, NFPA, IEC, and Saudi Electrical Codes, with a proven track record of delivering compliant, high-quality electrical solutions for commercial, institutional, and infrastructure projects. Fluent in Arabic and English, with excellent coordination and communication skills to thrive in multidisciplinary teams within the Saudi market.

Core Skills

- Electrical System Design & BIM Modeling (Revit, AutoCAD)
 - Power & Lighting Design (Indoor & Outdoor)
 - Cable Routing & Sizing Calculations
 - Short Circuit & Voltage Drop Analysis
 - Transformer, Generator, & UPS Sizing
 - Lightning Protection & Earthing System Design
 - Fire Alarm & ELV Systems Design
 - Coordination with Disciplines & Clash Detection
 - Standards Compliance: SBC401, NFPA, BS, DPS, IEC
 - Project Documentation & Bill of Quantities
 - Software: Dialux Evo, Ecodial, ETAP, Ease Focus, MS Office
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Education

Bachelor of Power & Machine Electrical Engineering

Zagazig University, May 2014

Graduated with Honours (Very Good)

Graduation Project: Design of Inverter Controlling Single & Three-Phase Induction Motors (Excellent Grade)

Professional Experience

ACKD Consult Company (KSA)

Senior Electrical Design BIM Engineer — December 2023 – Present

- Design indoor and outdoor electrical cable routing, including trench and manhole sizing.
- Prepare detailed panel schedules, cable sizing, and load calculations.
- Conduct voltage drop, short circuit, selectivity, and cascading studies.
- Size transformers, generators, and UPS systems; perform power factor correction calculations.
- Design MV and LV electrical networks per DPS standards.
- Coordinate with other disciplines to ensure integrated design.
- Develop lighting schemes (indoor, outdoor, street lighting) using Dialux Evo.
- Design lightning protection systems per NFPA 780 and BS 62305, including risk assessment and down conductor sizing.

- Design earthing systems in accordance with BS 7430:2011, including electrode sizing.
- Develop fire alarm systems per NFPA 72, including voltage and battery calculations.
- Design public address and voice evacuation systems, including speaker placement and amplifier sizing.
- Design data and ELV systems, including rack layouts, cable routing, and Wi-Fi coverage.
- Prepare BOQs, review designs, and coordinate multidisciplinary inputs.

Projects include:

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|---|-----------------------------------|
| • Saudi Arabian Museum of Contemporary Art (SAMOCA) | • Hilton Hotel, Riyadh |
| • Almozaini Square Mall | • Jeddah Islamic Sea Port |
| • DG-II Client Temporary Office, Riyadh | • Najran Airport Zamanan Brothers |
| • Sama Riyadh School & Semeou School | • Safa & Al-Muntaqa Schools |
| • Worker Village D.D.C | • Residential Villas |
| • Ernst & Young Office, KAFD | • Romooz Tower, |
| • Aramak Mixed-Use Complex | • Al Sahafa Tower |
| | • Argan Oasis Residences |

China State Construction Engineering Corporation (Egypt)

Senior Electrical BIM Engineer — July 2023 – December 2023

- Developed Revit models for as-built drawings for CBD project in the New Capital.
- Reviewed shop drawings and material submittals.
- Created Revit models for electrical trades at Cairo Festival Mall, coordinating with other disciplines.
- Prepared builder work drawings and shop drawings.
- Designed systems (earthing, power, lighting, fire alarm) for Poly Group Factory Project in Indonesia, including SLDs, panel schedules, and voltage drop studies.

Engineering Co. For Construction & Decoration (Elhaddad Group)

Senior Electrical Technical Office Engineer — August 2022 – July 2023

- Managed shop drawings, as-built documentation, and project records for the Alshrouq West Second Branch of the National Bank of Egypt.
- Followed up with subcontractors, processed RFIs, and monitored project progress.
- Reviewed invoices, managed change orders, and ensured quality standards.

Hassan Allam Construction (EPEMAC)

Senior Electrical Technical Office Engineer — July 2022 – August 2022

- Prepared shop drawings and quantity surveys for the Conference Hall at New Capital (Military Kyan).

Dar Alalamia Construction (OSA)

Senior/Team Leader Electrical Technical & Site Engineer — June 2016 – July 2022

- Led design and documentation for multiple projects in the New Capital, including military institutes, university buildings, and corporate offices.
- Prepared shop drawings, BOQs, and as-built drawings.

- Managed site inspections, quality control, and coordination with main contractors.
 - Developed detailed electrical drawings and system layouts for residential, educational, and governmental projects.
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Freelance Electrical Engineer

Part-Time Projects

- Designed electrical systems (power, lighting, fire alarm, CCTV, data) for various residential and infrastructure projects across KSA and Egypt.
 - Prepared shop drawings, BOQs, and system layouts using Revit and CAD.
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Computer Skills

- AutoCAD: Excellent
 - Revit MEP: Excellent
 - Dialux Evo: Excellent
 - Ecodial & ETAP: Good
 - MS Office Suite: Excellent
 - Ease Focus: Good
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Languages

- Arabic: Fluent
 - English: Very Good (Reading, Writing, Speaking)
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Certifications & Training

- Ongoing PMP Certification
 - Basics of Electrical Protection Systems
 - Electrical Works in Construction Projects
 - Saudi Building Code 401
 - Substation Power Engineering Fundamentals (Expected July 2024)
 - Revit MEP Courses — February 2022, November 2016
 - Distribution Course — January 2016
 - Substation & Electrical Training — 2012-2014
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Interests

- Reading, Writing, Traveling
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References

Available upon request.