

# Medhat Hamed

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## Professional Summary

Senior Electrical Engineer with over 8 years of hands-on experience in the design, installation, and supervision of electrical systems across residential, industrial, and administrative construction projects. Skilled in executing site works, preparing technical documentation, and leading teams to ensure project quality, safety, and timeline compliance. Adept at working within both technical office environments and on-site execution, with a strong background in LV systems, BOQ, and coordination with consultants and multidisciplinary teams. Actively seeking a challenging role as a **Technical Office Engineer** or **Site Supervision Engineer** within a dynamic organization that values growth, leadership, and technical excellence.

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## Education

**Bachelor's Degree in Electrical Engineering**  
Mansoura University – *Mansoura, Egypt*

2016

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## Professional Strengths include:

- Technical Office Engineer
- Supervision Engineer
- Construction Works
- Site Engineering and Management
- Shop Drawings
- Inventory quantities
- Detail Oriented
- Team Supervision
- Project coordination
- Presentation and Technical Reporting
- The ability to work under job pressure.
- Fully adapt to work within the team
- Self-motivated, Creative and Adaptable.
- Communication skills
- Revit
- AutoCAD
- Dialux Evo
- Etap
- Google Drive and Microsoft Office

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## Business Experience

**Thawan LTD. Company - Royal Protocol Guest palaces in Mina, Makkah, Saudi Arabia**

**Senior Electrical Engineer – Technical Office & Site Supervision**

**From 10 / 2024 Until Now**

- Led the design review and preparation of electrical shop drawings for street lighting systems, ensuring full compliance with Saudi standards and project specifications.
- Performed advanced LV electrical calculations: voltage drop, lighting lux level (Dialux Evo), short-circuit analysis, and earthing design with full testing protocols.
- Managed material submittals, consultant coordination, and technical correspondence (RFIs, method statements, approval cycles).
- Supervised the installation of underground cables, lighting poles, and main distribution paths, ensuring adherence to safety and quality procedures.
- Conducted full quantity surveying and BOQ alignment with actual site execution, highlighting variations and technical deviations.
- Coordinated with multi-disciplinary teams (civil, mechanical, telecom) to deliver conflict-free and well-integrated electrical systems.
- Played a key role in technical meetings, client presentations, and progress reporting.

**Thawan LTD. Company – DHAHIAT SUMOU – VILLA 10 MOCKUP, MAKKA, Saudi Arabia**

**Electrical Engineer – Villa Systems Execution & Technical Office**

**From 6 / 2024 To 10 / 2024**

- Oversaw the complete execution of electrical works for a high-end mockup villa including lighting, power, mechanical systems, and smart home interfaces.
- Installed full low current systems: BMS, sound, telecom, fire alarm, CCTV, security, and SMATV – ensuring integration with architectural and MEP requirements.
- Prepared detailed as-built drawings for lighting, power, feeders, and all low current systems using AutoCAD and site mark-ups.
- Conducted quantity surveying and cost alignment between shop drawings and BOQ, with consultant-approved adjustments.
- Managed daily site coordination between electrical, mechanical, and civil teams to maintain construction flow and minimize rework.
- Generated daily progress reports and site activity logs to support project tracking and client updates.
- Assigned labor, materials, and tools for all on-site activities and ensured compliance with safety and quality standards.

**Thawan LTD. Company - Ministry Of Finance Renovation, Jeddah, Saudi Arabia**

***Electrical Technical Office Engineer – Design & Supervision Support* From 10 / 2023 To 05 / 2024**

- Developed complete electrical shop drawings for ministry buildings and residential suites including lighting, power, feeders, and mechanical equipment systems.
- Supervised installation of power and low current systems such as fire alarm, CCTV, telecom, sound, and access control in high-end ministerial facilities.
- Executed electrical testing and fault analysis (voltage, load balance, earth continuity, short circuits) to ensure system integrity and safety.
- Conducted BOQ validation against actual drawings and implemented modifications in coordination with the consultant.
- Prepared technical submittals, method statements, RFIs, and official correspondence, ensuring timely approvals and documentation.
- Participated in technical meetings with consultants, clients, and project stakeholders to align execution with design intent and regulatory requirements.
- Studied and implemented lightning protection and earthing network strategies as per Saudi Code.

**Mepico For General Contracting - New Administrative Capital, Egypt**

***Electrical Engineer – Site Execution & Subcontractor Coordination***

**From 01 / 2021 To 07 / 2023**

- Managed and supervised site execution for complete electrical systems across residential and commercial zones within the New Capital project.
- Oversaw subcontractors' performance ensuring compliance with project specs, approved shop drawings, and construction schedules.
- Directed installation and testing of lighting, power outlets, fire alarm systems, CCTV, access control, data, and SMATV systems.
- Coordinated daily with civil, mechanical, and finishing teams to ensure smooth integration of electrical works.
- Conducted on-site quantity surveying and verified quantities against CAD drawings and project BOQ.
- Provided technical guidance and problem-solving support to site teams, resolving conflicts and clarifying design issues in real-time.
- Supervised material distribution, manpower allocation, and tool readiness across multiple work fronts.

**Binaa (Electromechanical & Infrastructure) Contracting - New 6th October City, Egypt**  
**Electrical Site Engineer – Infrastructure & LV/MV Systems** **From 10 / 2018 To 12 / 2020**

- Supervised installation of underground MV and LV cable networks, including trenching, laying, jointing, and termination works.
- Executed complete earthing network for buildings and external areas, ensuring low resistance values and full safety compliance.
- Installed and tested LV distribution panels, lighting circuits, fire alarm systems, intercom, access control, and data networks per approved drawings.
- Managed quantity surveying, material submittals, and inspection requests in coordination with consultants and other disciplines.
- Monitored day-to-day site activities, managed electrical labor teams, and provided technical support for troubleshooting and issue resolution.
- Ensured proper coordination with civil and mechanical teams to avoid site clashes and delays.

**Elsewedy Electrometer Group "EMG" - 6th October City, Egypt**  
**Project Engineer**

**From 08 / 2016 To 08 / 2018**

- Led the installation and commissioning of smart energy meters and water meters across various residential zones.
- Provided technical support to the software integration team for data transmission, meter readings, and remote monitoring.
- Handled maintenance operations and troubleshooting for malfunctioning meters, ensuring minimal downtime and optimal network reliability.
- Assisted in testing and validating metering system performance, including communication modules and programming software.
- Coordinated with the Technical Services Department to align field installations with backend systems and reporting tools.

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## Additional Skills

- **Electrical Design & Calculations:** Load estimation, cable sizing, voltage drop, short-circuit analysis, breaker selection, panel schedules, single-line diagrams (SLD).
- **Software Proficiency:** AutoCAD, Revit MEP, Dialux Evo, ETAP (basic), Microsoft Excel (for advanced electrical calculations).
- **Site Execution:** LV/MV cable laying, earthing systems, lighting installation, distribution boards, and panel connections.
- **Technical Office:** Shop drawings, as-built drawings, quantity surveying, material submittals, invoice preparation.
- **Low Current Systems:** Fire alarm (addressable and conventional), CCTV, data networks, sound systems, SMATV, access control, intercom.
- **Lighting & Power Systems:** Indoor and outdoor lighting design, decorative pole installations, power outlet systems (residential & industrial).
- **HVAC Coordination:** Electrical provisions for split units, package units, and central AC systems.
- **Project Documentation:** Handling RFIs, method statements, inspection requests, site letters, and consultant correspondence.
- **Multidisciplinary Coordination:** Ensuring clash-free composite drawings and alignment with civil, mechanical, and architectural teams.
- **Regulations & Standards:** Saudi Electrical Code, IEC standards (familiar), safety practices and compliance

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## Certifications

- **Diploma in Electrical Technical Office** – EGYCET (Egyptian Company for Engineering Training)
- **Distribution Power Systems Course** – EGYCET
- **Programmable Logic Controller (PLC1 & PLC2)** – ITC Academy
- **Light Current Systems Course** – *Independent Study*
- **Basic Awareness – Revit MEP** – *Self-paced Online Course*
- **Basic Awareness – Primavera P6** – *Self-paced Online Course*
- **Basic Awareness – ETAP** – *(as part of Distribution Course)*
- **Basic Awareness – Dialux** – *(as part of Distribution Course)*
- **ICDL (International Computer Driving License)** – *Self-paced Online Course*

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## Languages

- **Arabic:** Native
- **English:** Very Good