

Ahmed M. Hamoda

Electrical Engineer

Personal Information:

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Nationality: Egyptian

Current location: Riyadh, KSA

Resident status: Valid Iqama

Driving License: Valid (ksa)

Education:

Bachelor of Electrical Engineering – Shorouk Academy– Electrical Power and Machines Department.

Graduation Year: 2013

Graduation grade: Good

Career Summary:

Electrical Engineer with +11 years of experience in **designing, implementing, site management and technical office work** for Multiple project types Residential, Commercial, Administrative and Hospital projects.

I also have solid experience at infrastructure projects including Low voltage, medium voltage, and street lighting networks as Designer and technical office work.

Execute effective **Cost Management, Risk Management, and Resource Management** to improve project performance and ensure successful delivery.

All this experience was accumulated through the application of programs such as AutoCAD, ETAP, Revit, Dialux, and Office programs. Therefore, work is currently underway to obtain the PMP certification.

Professional Skills:

- **Site supervision** and Coordination with multidisciplinary teams.
- **Tendering & Cost Estimation:** Skilled in BOQ analysis, pricing, and preparing competitive offers.
- Contracts (FIDIC):** Studied FIDIC contract conditions relevant to project agreements to find potential issues and support in resolving them.
- **Progress Claims & Variations:** Skilled in preparing, reviewing, and verifying progress claims and contract variations.
- **Preparing Design, Shop drawing and As-built drawings** using related software.
- **Electrical Calculations** (Panel schedule. Voltage Drop Calculations)
- Basic Knowledge of Low current systems (Fire alarm, CCTV, Data networks, security systems).
- Revit:** Proficient in electrical design, 3D modeling, and BIM coordination.
- Basic Knowledge of Renewable Energy (PV systems).
- Basic Knowledge of Saudi Electrical Code (SBC 401), Also Saudi Electric company (SEC) requirements.

Professional Experience:

**** Senior Electrical Project Engineer ****

Distinct Architecture Co., Riyadh

from (Oct. 2024) till (now)

- Current project: (RASSEN SEDRA 1) - Project Value 250 million SAR.

Construction, design review and Handover to the Client (AJDAN Real State), the project coordination with the Owner's Representative and Consultant (Ahmed Almousa Consulting Office) the whole project including:

154 Villas, Mosque, Primary School and related infrastructure for low voltage networks and street lighting.

This project was found at ROSHN Zone (Riyadh).

Job Responsibilities:

1. Technical & Design:

- 1.1-Full responsibility for all Electrical work across the project, from design to execution and handover.
- 1.2-Reviewing IFC drawings, identifying discrepancies, and proposing cost-effective solutions.
- 1.3-Prepare, review, and coordinate electrical drawings and 3D models using Revit and AutoCAD.
- 1.4-Design and simulate lighting interior & street lighting systems using Dialux.
- 1.5-Manage and review FIDIC-based contracts to find potential issues and implement solutions.
- 1.6-Checking the applying of QA/QC plans, manage the NCRs, and ensure that the project will be approved electrical materials and equipment

2. Site & Project Management:

- 2.1-Prepare, review, and verify progress claims, payment certificates, and contract variations.
- 2.2-Lead tendering and cost estimation processes, including BOQ analysis and pricing.
- 2.3-Prepare detailed breakdown analysis and pricing of project items to support tendering, cost estimation, and budget control.
- 2.4-Managing subcontractors and coordinating site activities to avoid conflicts, minimize delays, and achieve smooth project delivery.
- 2.5-Prepare daily, weekly, and monthly reports on site status, manpower, progress, and encountered obstacles to support management decision-making.
- 2.6-Monitor project risks and implement mitigation plans while ensuring compliance with Health, Safety, and Environmental (HSE) standards on site.

Achievements:

- Create Value-engineering study for all electrical items with final cost reduction (20%).
- Successfully prevented project delays by coordinating with the planning engineer and other discipline engineers to ensure smooth workflow and prompt task completion.

**** Principal Electrical Engineer ****

ALMARASEM International Development., Cairo

from (Jan. 2018) till (Sep. 2024)

Works as **Electrical Technical office Engineer & Q. C Site Engineer & Technical support Engineer** for the Following projects as mentioned.

Projects:

- **R5 Residential zone** (50 Clusters with all related electrical and security systems for indoor and infrastructure electrical networks) at New Administrative Capital - Egypt.
- **Suez Medical Complex** (536 Bed) Hospital at Suez City – Egypt.
- **5th Square Residential Compound** (150 Apartment Building, 50 Villas) – New Cairo - Egypt.
- **ALMARASEM-Mall**, 10 Acres Mega mall – New Cairo – Egypt.
- **Green River Project, Sector 02** - New Administrative Capital – Egypt

Job Responsibilities:

- Prepare and review electrical execution drawings for all buildings and infrastructure.
- Design and implement power and lighting networks for internal and external areas.
- Supervise installation of main and sub-electrical panels and load distribution.
- Design and install security and monitoring systems (CCTV – Access Control) and fire alarm systems.
- Calculate electrical loads and ensure compliance with international standards (IEC / NEC).
- Monitor installation of cables, transformers, and electrical equipment for quality assurance.
- Coordinate with other disciplines (mechanical, plumbing, architectural) to avoid conflicts.
- Prepare and review work progress reports, BOQs, payment certificates, and cost estimates.
- Participate in tendering processes and bid preparation, Support the technical office in resolving on-site technical issues.
- Conduct testing and commissioning of all electrical systems prior to handover.
- Support the technical office in resolving on-site technical issues.
- Ensure execution quality and compliance with electrical safety standards.
- Oversee installation of outdoor lighting, roads, and public area electrical works.
- Review, update, and control project costs, execution drawings, and design documents with field changes.

Achievements:

- Successfully participated in the handover and commissioning of major projects including:
 - R5 Residential Zone
 - Suez Medical Complex (536 Bed) Hospital
 - ALMARASEM Mall (10 Acres Mega Mall)
 - Green River Project, Sector 02

**** Electrical Design Engineer ****

Sabbour Consulting, Cairo

from (Jan. 2016) till (Dec. 2017)

Works as **Electrical Design & Technical support Engineer**

providing design support and technical assistance to site teams and contractors, Responsible for designing electrical systems and low current systems, ensuring compliance with project specifications, Managed approval processes for electrical materials and equipment, coordinating with suppliers and contractors to ensure timely delivery and quality standards.

Projects:

-Kayan 101 for Egyptian Armed Forces (20000 Acres) including electrical and low current systems and infrastructure Design for (octagon 10 Buildings, Data centers, residential Apartment Buildings, 4 No. hotels) at New Administrative Capital - Egypt.

-Military shooting club for Egyptian Armed Forces including electrical and low current and infrastructure Design for (5 stars Hotel, 3no. shooting areas, football playground) at New Administrative Capital - Egypt.

- Banks (4 no. banks) Electrical & Low Current systems Design Hospital – Egypt.

- Alahly sports Club – 5th settlement Branch – Egypt.

Job Responsibilities:

-Design and coordinate electrical and low current systems using AutoCAD and Revit.

-Perform load calculations and power distribution analysis to ensure efficient system performance.

-Prepare technical specifications, submittals, and material take-offs for electrical and low current systems.

-Supervise and coordinate electrical installation works on site, ensuring compliance with approved drawings.

-Manage approvals for materials and equipment, coordinating with suppliers and consultants.

-Collaborate with multidisciplinary teams to ensure integration of electrical systems .

-Ensure safety and quality compliance according to local regulations and international codes.

-Prepare technical reports and documentation, including updates, revisions, and system records

- Preparing Take-off quantities and Bill of Quantities.

- Preparing time schedule for Design Phase for Each Project.

- Review Submitted Shop drawings, As-built drawings, and material submittal From Contractor.

**** Site Electrical Engineer ****

NN Electromechanical, Ghana

from (Jan. 2015) till (Dec. 2015)

Worked as a Site Electrical Engineer at Ghana

The Project was 160-bed hospital project, and my role was supervising the execution of all electrical works and ensuring compliance with design specifications.

Coordinated with contractors and multidisciplinary teams to guarantee prompt project delivery, quality standards, and smooth site operations.

Job Responsibilities:

- Supervise the execution of electrical works on site, ensuring compliance with drawings and specifications.
 - Coordinate with other teams to ensure integration of electrical systems with other project components.
 - Ensure adherence to safety, health, and quality standards throughout the project.
 - Prepare daily and weekly technical reports on progress, obstacles, and proposed solutions.
 - Manage and guide site teams and subcontractors to achieve efficient and timely project delivery
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Certificates:

- PMP (In progress)
 - AutoCAD & Dialux
 - Revit MEP
 - PLCs & Scada for industry (SCE certificate)
 - Applications and Selection of VRF Systems (SCE certificate)
 - LV Withdrawable Motor Control Centers (SCE certificate)
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Software skills:

- AutoCAD
 - Dialux Evo
 - Revit
 - ETAP
 - M. S office
 - Procore
 - Value-Mak (ERP system)
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Personal Skills:

- Leadership & Team Management.
 - Attention to Detail.
 - Resolution.
 - Ambitious & self-learner.
 - Adaptability & Flexibility
 - Time Management.
 - Negotiation & Conflict Resolution.
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**** References available upon request ****