

## Senior Electrical Design BIM Engineer

Riyadh, KSA.

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# Sherif Mohamed Eltawel

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## Personal Data:

- Date Of Birth : 02 / October / 1991
- Nationality : Egyptian
- Marital status : Married
- Military status : Served

## Education:

- Bachelor Degree of **Power** & Machine Electrical Engineering, Zagazig University, May 2014 ,
- Grade: Very good with **honors**
- Graduation Project: Design Inverter Controlling single phase & three phase Induction Motor.
- Project grade: Excellent.

## Professional Experience:

- **Currently, Since December 2023– ACKD Consult Company(KSA)  
Working as Senior Electrical Design BIM Engineer**

## Projects & Responsibilities:

### 1. Responsibilities:

1. Design cable routing for indoor and outdoor buildings, including trunch sizes and manhole sizes.
2. Panel schedule design with all details.
3. Cable sizing calculations.
4. Voltage drop and short circuit analysis/calculations, as well as selectivity and cascading study.
5. Sizing of transformers, generators, and UPS systems.
6. Power factor correction calculations.
7. Design of MV and LV Network according to DPS.
8. Coordination with other disciplines.
9. Load estimation for the building or infrastructure design according to DPS.
10. Lighting design (indoor and outdoor) using Dialux Evo and power distribution system design.
11. Exterior lighting design and street lighting using Dialux Evo.

12. Design of lightning protection network according to NFPA 780 and BS 62305, including a risk assessment report, design of down conductor sizing and location, and air terminal system.
13. Design of earthing system network according to BS 7430:2011, including design of earthing conductor based on short circuit current and design of earthing electrodes to achieve the target resistance.
14. Design of fire alarm system according to NFPA 72 with all calculations (voltage drop, battery calculation, cause and effect matrix).
15. Design of public address and voice evacuation system, including design location and wattage of speakers using Ease Focus, design of amplifier sizing, and voltage drop calculations.
16. Design of data systems, including rack sizing, Wi-Fi coverage design, room sizing, and cable routing for ELV systems.
17. Design of CCTV system.
18. Bill of quantities.
19. Design review .

## **2. Projects:**

1. Saudi Arabian Museum of Contemporary Art (SAMOCA) (Riyadh, KSA).
2. Almozaini-square mall.
3. DG-II Client Temporary Office (Ad-Diriyah, Riyadh, KSA).
4. Sama Riyadh School Project (Riyadh, KSA).
5. Semeou School Project (Riyadh, KSA).
6. Worker Village,D.D.C Project (Riyadh, KSA).
7. Ernst & Young New Office Project-KAFD (Riyadh, KSA).
8. Aramak Mixed-Use Complex Project (Riyadh, KSA).
9. Hilton Hotel (Riyadh, KSA).
10. Jeddah Islamic Sea Port (Jeddah, KSA).
11. Najran Airport Zamanan Brothers .
12. Safa School (Riyadh, KSA).
13. Al-Muntaqa School (Riyadh, KSA).
14. Anan Tower (Riyadh, KSA).
15. Residential Villas and Building.

- **From July 2023 to December 2023 – China State Construction Engineering Corporation(CSCEC-Egypt)  
Working as Senior Electrical BIM Engineer**

**Projects & Responsibilities:**

- **CBD Project (In the new Capital):**  
Create Model Revit For As-built drawings.  
Review shop drawing approval Comments, material submittal approvals Comments .
- **Huawei Project (In the cairo Festival Mall):**  
Create Model Revit For Electrical trades .  
Co-ordinates with other trades .  
Preparing Builder work drawing .  
Prepare shop drawings .
- **Poly Group Factory Project (Indonesia):**  
Preparing Design drawing of all systems ( Earthing, Power, Lighting, Fire Alarm CAD)  
Preparing SLD and Panel Schedule .  
Preparing Light Current Systems Riser Diagrams.  
Making Voltage Drop Study And Short Circuit Calculations.

- **From August 2022 to July 2023– Engineering Co. For Construction & Decoration (ECD) Elhaddad Group  
Working as Technical Office Engineer**

**Projects & Responsibilities:**

- **Alshrouq west Second Alternative (National Bank of Egypt ):**  
Preparing Builder work drawing  
Prepare shop drawings and as-built drawings, and ensure documentation and records in use are reviewed, approved by the consultant.  
Study and prepare requests for information, follow up subcontractor's progress.  
Manage quantity surveying and change orders.  
Review and issue order to pay for subcontractors' invoices.  
Check the quality of the work executed.  
Follow up shop drawing approval, material submittal approvals  
Comply to the quality instructions according the projects standards.  
Review subcontractor invoices and assist in issuing subcontractor payment request.  
Follow up the project milestones achievement according to the time schedule set.

- **From July 2022 to August 2022 – Hassan Allam Construction (EPEMAC)  
Working as Technical Office Engineer**

**Projects & Responsibilities:**

- **Conference Hall at the New Capital ( MILITARY KYAN):**  
Preparing Builder work drawing  
Preparing Shop drawing of all systems  
Preparing Quantity Survey for the project of all systems

- **From June 2016 to July 2022 – Dar Alalamia Construction(OsA)  
Working as Technical Office Engineer and Site Engineer**

**Projects & Responsibilities:**

➤ **Arab Organization for Industrialization Building at the New Capital:**

Preparing Builder work drawing  
 Preparing Shop drawing of all systems  
 Preparing Quantity Survey for the project of all systems  
 Prepare of quantity Take-off for all item according to the BOQ description.  
 Prepare invoices with Main Contractors and make follow up for related document.  
 Prepare all site documentation (MS, MIR, IR, CDR, ...etc.).  
 Prepare Requests for Information (RFI) when necessary.  
 Preparation for all data related to variation to be included in cost impact.  
 Prepare as-built drawings.

➤ **Entity Military Project 110 at the New Capital:**

Preparing As-Built drawing of all systems such as lighting, power, cable routing, and light current systems.  
 Preparing Quantity Survey of the project of all systems

➤ **Military Institutes at the New Capital:**

Preparing Builder work drawing  
 Preparing Shop drawing of all systems  
 Preparing Quantity Survey for the project of all systems

➤ **Banque Misr Building at the New Capital:**

Preparing Builder work drawing  
 Preparing Shop drawing of all systems  
 Preparing Quantity Survey for the project of all systems

➤ **Galalah University:**

Preparing Shop drawing of all systems for faculties of Engineering and Pharmacy  
 Preparing Quantity Survey of the project of all systems

- **Working as a Freelancer Engineer as a part time**

➤ **WADI SAFAR INFRASTRUCTURE, DIRIYAH, K.S.A:**

Preparing Shop drawing of Power Medium Voltage and Low Voltage Systems  
 Preparing Shop drawing of Street Light System  
 Preparing Shop drawing of Telecom System  
 Preparing all Calculations.

➤ **VYE SODIC, at New Zayed, EGYPT:**

Preparing Shop drawing of all systems (Revit).  
 Preparing Quantity Survey Sheets of all systems (Revit).  
 Preparing Schedules and Sheets.

➤ **KING SALMAN ENERGY PARK (SPARK) Dammam , K.S.A:**

Preparing Shop drawing of all systems (Revit).  
 Preparing Quantity Survey Sheets of all systems (Revit).

- **DARI II – Residential Building, at Jeddah, KSA:**  
 Preparing Builder work drawing (Revit).  
 Preparing Shop drawing of all systems (Revit).
- **Residential Building as Villas .. , at Jeddah, KSA:**  
 Preparing Design drawing of all systems ( Earthing, Power, Lighting, Data, TV, CCTV, Intercom (CAD)  
 Preparing SLD and Panel Schedule .  
 Preparing Energy Efficiency Drawings for Lighting System
- **2014 – Graduation Project**  
**Inverter Controlling single phase and three phase Induction motor.**  
 The main objectives of my project is to design an inverter to control the speed of Induction motor.

**Computer Skills:**

- Microsoft Office: Excellent
- Autodesk Autocad : Excellent
- Dialux : Good
- Dialux Evo: Excellent
- Autodesk Revit : Excellent
- Etap : Good
- Ecodial : Excellent
- Ease\_Focus : Good

**Languages:**

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

**Interests:**

- Reading
- Writing
- Traveling

**Training Courses:**

- Substation Power Engineering Fundamentals July 2024
- Revit MEP Course Feb 2022 (On-Line Course).
- Revit MEP Course Nov 2016 .
- Distribution Course Jan 2016.
- Training in "Zagazig Substation in Sherweda" 2014 .
- Training in "Minia-alqamh Electrical Company" 2012

**References:**                      Furnished upon request