

**A h m e d E z z a t A t t a l l a**  
**Senior Electrical Engineer**  
**PMP® Certified, PMI**  
**Consultant Member, SCE**



Electrical Engineer with over 19 years of experience specializing in Electrical systems across **infrastructure and buildings projects like Master Plan Development, Detailed Infrastructure, Tunnels, Hospitality, Airport, MISK Schools and Rehabilitation of Taxiway**, Proven expertise in Design, Implementation, Testing, Commissioning, and handover of complex Projects.

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### KEY QUALIFICATIONS

**Bachelor of Electrical Engineering - 2006**  
**Mansoura University| Egypt**

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### AREA OF EXPERTISE

SYSTEM / FIELD	RELEVANT PROJECTS
Medium Voltage Network including Switchgear, Step Up Transformer, Step Down Transformer, RMU, and Cables	<ul style="list-style-type: none"> <li>- Mayadeen Al-Kharj Projects</li> <li>- Raidah Housing Complex Infrastructure Project</li> <li>- RUA Al Madinah Infrastructure Project</li> <li>- NDEDCO</li> </ul>
Low Voltage including Lighting, Power, Cables, UPS, Electrical Panels, EV Charger, Generators, Grounding and Lighting Control.	<ul style="list-style-type: none"> <li>- Mayadeen Al-Kharj Projects</li> <li>- MISK Schools</li> <li>- RUA Al Madinah Main Infrastructure Project</li> <li>- New King Abdullah Airport Project</li> <li>- AMAYA Master Plan including Trump Plaza</li> </ul>
Street Lighting including installation of poles, luminaires, feeder pillars, underground cabling and Earthing.	<ul style="list-style-type: none"> <li>- Mayadeen Al-Kharj Projects</li> <li>- Raidah Housing Complex Infrastructure Project</li> </ul>
ELV Systems including SCADA, BMS, CCTV, Fire Alarm, PAVA, Access Control, Intercom, IP Telephone, Structured Cabling, IP DATA and WIFI.	<ul style="list-style-type: none"> <li>- Mayadeen Al-Kharj Projects</li> <li>- MISK Schools</li> <li>- RUA Al Madinah Main Infrastructure Project</li> <li>- New King Abdullah Airport Project</li> <li>- AMAYA Master Plan including Trump Plaza</li> </ul>
AGL (AIRFIELD GROUND LIGHTING)	<ul style="list-style-type: none"> <li>- Rehabilitation of Taxiway in King Khalid Air Base</li> <li>- New King Abdullah Airport Project</li> </ul>
HVAC	<ul style="list-style-type: none"> <li>- Mayadeen Al-Kharj Projects</li> <li>- MISK Schools</li> <li>- RUA Al Madinah Main Infrastructure Project</li> </ul>
Fire Fighting	<ul style="list-style-type: none"> <li>- MISK Schools</li> <li>- RUA Al Madinah Main Infrastructure Project</li> </ul>
Operation and Maintenance	<ul style="list-style-type: none"> <li>- North Delta Electricity Co (NDEDCO), it follows the Ministry of Electricity &amp; Energy (EGYPT)</li> <li>- O&amp;M of Mobily Company Sites</li> </ul>

## EMPLOYMENT HISTORY

2025 – Present	<b>Buruoj Engineering Consultant - JEDDAH</b> Senior Electrical Engineer
2024 – 2025	<b>CRCC (Branch of China Railway) - ALMADINAH</b> Senior Electrical Engineer
2023 – 2024	<b>V3 Middle East Engineering Consultants - RIYADH</b> Senior Electrical Engineer
2021 – 2023	<b>SAFARI GROUP- JIZAN</b> Senior Electrical Engineer
2019 – 2021	<b>Strong Spread for Contracting – KHAMIS MUSHAIT</b> <b>Electrical Manager</b>
2014 – 2019	<b>MASCO – ALKHARJ &amp; JEDDAH</b> Senior Electrical Engineer Project Manager
2009 – 2014	<b>North Delta Electricity Co (NDEDCO) – EGYPT</b> Protection and Control Engineer
2008 – 2009	<b>Alexmar Company – KSA</b> Electrical Engineer

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## PROJECTS UNDERTAKEN

### 2025 – AMAYA Master Plan including Trump Plaza (Jeddah)

The Masterplan represents the development of a prime land parcel Spanning approximately **(1) million** square meters, the vision is to create:

- Distinctive residences
- Co-branded real estate for global citizens
- Spaces for exceptional living and investment

### Responsibilities:

- Lead and manage Design Activities across multidisciplinary teams including Concep Design, Schematic Design, and Detailed Design.
  - Review, develop, and validate Engineering Designs for Utilities including power and ICT.
  - Coordinate electrical works with other infrastructure utilities such as road networks, water, sewage, stormwater, irrigation, and landscaping.
  - Prepare the Design of Trump Plaza including Commercial and Residential Buildings for Power, Lighting, ICT, ELV and Smart Parking Systems.
  - Prepare Load Estimation, Panel Schedule and ensure compliance with SEC Requirements.
  - Manage Design Activities with Sub Designer.
  - Workflow management via ACC (Autodesk Construction Cloud)
  - Ensure full compliance with Saudi Building Code, local regulations and relevant standards.
  - Oversee BIM coordination, supporting model integration across the disciplines.
  - Monitor project schedules, risks, and deliverables to ensure timely and high-quality output.
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## **2024 - RUA Al Madinah Infrastructure Project (Al Madinah)**

Project Budget: **4 billion SR**

The Project consists of **Tunnels**, Bridges, **Dry Culvert**, **Wet Culvert**, MEP Rooms, Pump Stations and Egress Stairs.

### **Responsibilities:**

#### **Managed Electrical and ELV Systems in the Project:**

- Medium Voltage Network in Dry Culvert with providing Linear Heat Detection System for ventilation of Medium Voltage Cables on the Cable Tray.
- Medium Voltage Switchgear, Transformers and RMU.
- Ensure compliance with SEC Requirements and getting the required Approvals.
- Coordinate electrical works with other infrastructure utilities such as road networks, water, sewage, stormwater, irrigation, and landscaping.
- Lighting Control System and Lighting System with LUX Calculation.
- Standby Generators and ensured the integration with SCADA System.
- Reviewed the Design of IOC (Integration and Operation Center) to meet the new requirements from the Client.
- Improved network reliability through redundant fiber backbone design.
- CCTV System with Compliance to the MOI requirements to ensure the availability of all Analytic Features and Automatic Incident Detection (AID).
- Access Control System including the Electronic Manholes Covers.
- SCADA System including review and prepare the Input and Output (I/O) List for the several Electrical and Mechanical Systems which are required to be Connected to SCADA.
- Ensure the Compliance to the Requirements of the Authorities like CIVIL DEFENCE and MOI.
- Revise BOQ, Prepare Scope Alignment, and Prepare Variation Orders.
- Prepare Materials Lists, Purchase Orders and focus on Long Lead Items.
- Review of the RFI related to Electrical Works.
- Prepared shop drawings including cable routing plans, and equipment room layouts.
- Ensure compliance with the several standards like NFPA, IEC and BICSI.
- Review the Materials Technical Submittals, Vendor Proposals and method statements in compliance with project specs.
- Review the Contracts for the subcontractors and suppliers.
- Prepare the Coordination Drawings between MEP Systems.
- Attending Meetings with all stakeholders for Technical, Procurement and Progress.
- Manage construction activities according to the Construction Plan, ensuring adherence to project specifications and timelines.

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## **2023 - MISK Schools Project (Riyadh)**

Project Budget: **1.4 billion SR**

### **Responsibilities:**

- Review and approve the shop drawings, Method Statement, Calculations and Material Submittals.
  - Conducted regular site inspections to track work quality and progress; issued NCRs and SORs when required.
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- Collaborated with project Stakeholders to maintain alignment with project schedule and budget.
- Review Discrimination Study and Schematic Diagram for Electrical Panels in the Project including LVP, MCC, SMDP, EMCC, ESMDP, DBs.... etc.
- Review As- built drawings, Operation & Maintenance Manuals, Warranty Certificates and all documents for Closing the Project, Taking Over Certificate (TOC) to be issued
- Monitor all installations including first fix, second fix and devices.
- Ensure the integration with BMS and communication protocols like Modbus and BACnet.
- Conducting all stages of BMS Testing & Commissioning:
  - Pre-Commissioning, includes Visual Inspection, Power Checks and Cabling Verification.
  - Point-to-Point Testing, to Confirm signals are received and displayed correctly on the BMS graphics.
  - Integration Testing, to ensure BMS communicates with other systems within dry contact or Protocols like BACnet and Modbus.
  - Graphics and HMI Verification, to ensure user interfaces display real-time data and alarms correctly.
- Conducting all tests for Power, Lighting, Lighting Control, Fire Alarm, PAVA, Access Control, CCTV and the CAUSE-and-EFFECT MATRIX Test in attendance of CIVIL DEFENCE CONSULTANTS.
- Ensure issue Work Permits for all activities and comply with safety standards.
- Monitor the Snags Throw The (Onsite) Application.
- Workflow management via Aconex.
- Supported end-users (Facility Management in Misk Foundation) during defects liability period (DLP).

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## **2021 - New King Abdullah Airport Project (JIZAN)**

Project Budget: **3.5billion SR**

The KAIA is a new state-of-the-art public airport in Jizan, with a total plot area of 50,000,000 m<sup>2</sup> and 51 buildings including passenger terminal building with BUA of 170,000 m<sup>2</sup> and a royal terminal building with BUA of 80,000 m<sup>2</sup>.

### **Responsibilities:**

- Review the Design, revise the BOQ and review the contracts of subcontractors.
- Monitored site work, addressed construction challenges, and led weekly progress meetings with stakeholders.

**Building Scope:** Electrical and Low Current Systems and Airport Special Systems For (PTB, RTB, ATC With All Ancillary Buildings and departure bridge.

**Infra Scope:** Electrical and Low Current Networks and AGL System.

- Prepare the Quantification and breakdown for invoices submission.
  - Conduct Factory Acceptance Test (FAT) before delivery of Materials to the site.
  - Manage construction activities, ensure that work is carried out on (Air Side & Land Side) compliance with Safety requirements and support for the update of project Plans.
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## **2019- Rehabilitation of Taxiway in the King Khalid Air Base (KHAMIS MUSHAIT)**

### **Responsibilities:**

- Planned and executed the upgrade of Air Base Taxiway infrastructure.
  - Oversaw pavement rehabilitation, grading, drainage improvements, and lighting systems installation Taxiway including Centerline Lights, Cables, Deep Bases and Constant Current Regulators (CCR).
  - Ensured minimal disruption to airside operations during construction.
  - Supervised scheduling, budgeting, safety compliance, and quality control.
  - Conducted on-site inspections and ensured adherence to standard and specifications.
  - Manage Procurement activities, follow the materials delivery from outside KSA and coordinate with the Customs broker till the materials reach the site.
  - Testing & Commissioning, start-up the system and Handover to the Facility Management in the Air Base.
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## **2018 - Raidah Housing Complex Infrastructure Project (JEDDAH)**

Project Budget: **400** million SR

### **Responsibilities:**

- **Managed the Implementation of:**
  - **Medium Voltage Network** include Transformers, RMU and MV Cables.
  - **Street Lighting** including installation of poles, luminaires, feeder pillars, underground cabling, Earthing and ensuring Lux Level Calculation for Roads and streets.
  - **Telecommunication Network** including (Manholes & Handholes- HDPE Ducts - Fiber Distribution Terminal (FDT)- Fiber Optic Cables).
  - Conducted Testing for Fiber Optic Cables by third party.
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## **2014 - Mayadeen Al-Kharj Projects**

### **Responsibilities:**

- Managed multiple infrastructure and building projects, including industrial buildings complex, Medium Voltage Network, LV and ELV Systems.
  - Conducted required inspections, MIR, WIR, Testing and Commissioning for all Systems.
  - Follow with Suppliers for materials delivery and arrange the proper conditions for storage on the site and conducted FAT before delivery to site.
  - Attend the meetings with the Client, Design Consultant and Supervision Consultant
  - Prepare monthly invoices and review subcontractor invoices.
  - Prepare the Final Invoice and Handover the Projects to the End User.
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**2009-** North Delta Electricity Co, it follows the **Ministry of Electricity & Energy (EGYPT)**

**Responsibilities:**

- Review the Specifications for Medium Voltage Network including Switchgear, Substation, RMU and Cables, supervise the Installations and ensure the integration with SCADA System
  - Installation and Testing & Commissioning of Medium Voltage Switchgear 11 KV .
  - Implementation of the Installations of required devices and Connections in the Switchgear and RTU related to SCADA System.
  - Working in the Control center (SCADA SYSTEM).
  - Load flows calculations, Digital Relay and protection coordination.
  - Attending the Factory Acceptance Test for Electrical Items.
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**2008 -** Operation and Maintenance of **Mobily** Company Sites (**DAMMAM**)

**Responsibilities:**

- Managed the maintenance of (Shelters & Generators) in Mobily & Zain sites.
  - Ensure that all Connections for the Signals from the Generator and other Equipment are ready to be Connected to SCADA System.
  - Ensure that all Spare Parts are available for the Corrective and Preventative Maintenance.
  - Coordinate with all Stakeholders in case of Emergency Shut Down for the Network.
  - Working as a coordinator with Mobily in Eastern Region in Saudi Arabia.
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**ENGINEERING SOFTWARE**

- AUTOCAD
  - REVIT
  - ETAP
  - DIALUX EVO
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**PERSONAL DETAILS**

Marital Status	:	Married
Date of Birth	:	15-07-1982
Nationality	:	Egyptian
Current Residence	:	Jeddah
Mobile No.	:	0563218710
Email	:	ahmed.ezzat8292@gmail.com

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