

Islam Mohamed Abosaif

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Electrical BIM Engineer

PROFILE

Electrical Engineer combining BIM design with hands-on experience in PLC systems and water treatment operations. Develops coordinated electrical models, calculations and shop drawings using Revit MEP, AutoCAD and Navisworks.

EXPERIENCE

Electrical BIM Engineer

Aug 2025 – Present

SEQUENCE-Eng

- Prepare Revit MEP electrical models, shop drawings, single-line diagrams, and lighting and power layouts.
- Coordinate with architectural and mechanical teams and run clash detection in Navisworks.
- Review electrical loads, cable and cable-tray sizing, voltage drop and short-circuit calculations against project requirements.
- Prepare bills of quantities and support technical submittals, specifications and code compliance.

KEY PROJECTS · SAUDI ARABIA

Central AIUla Staff Accommodation

Diyar ALMAHASH · Jan 2026

Six buildings: RBL, SDB, AMM, SMB, JS1 and JS2.

- Performed the electrical and low-current design for the **RBL** and **SDB** buildings: power, lighting, earthing, lightning protection, fire alarm, data, public address and security systems.
- Prepared detailed shop drawings for the remaining four buildings, **AMM, SMB, JS1 and JS2**, covering the same systems.
- Managed drawing reviews and coordination through Autodesk Construction Cloud.

Private Aircraft Hangar, KAIA

Jeddah · May 2026

Reviewed power, lighting, earthing, lightning protection and low-current systems; coordinated electrical models and clashes in Navisworks.

Taif Cinema

Taif · Dec 2025

Reviewed electrical and low-current designs, produced Revit shop drawings and identified coordination clashes in Navisworks.

King Fahd Sports City

Riyadh · Aug 2025

LOD 400 electrical coordination and BIM shop drawings; reviewed cable, tray, voltage-drop and short-circuit calculations.

Electrical Operations and Maintenance

Dec 2015 – Jun 2025

Drinking Water and Wastewater Company · Tanta Branch

- Supervised, operated and maintained electrical systems in water and wastewater treatment facilities.
- Operated classic control systems and worked with Siemens and Schneider PLCs, including programming.
- Diagnosed electrical faults to keep plants running continuously and reliably.
- Carried out preventive and corrective maintenance with operations and maintenance teams in high-pressure conditions.
- Ensured full compliance with electrical safety regulations and operating standards.

TECHNICAL

Electrical

- Power
- Lighting
- Earthing
- Lightning protection

Low Current Systems

- Fire alarm
- Data
- Security
- Public address

Design and calculations

- Single-line diagrams and panel schedules
- Load, cable and tray sizing
- Voltage drop and short circuit
- Shop drawings and BOQs

SOFTWARE

Revit MEP · electrical modeling

Navisworks · clash detection

AutoCAD · 2D drafting

DIALux · lighting calculations

AUTOMATION AND CONTROL

Siemens and Schneider PLCs
Classic control systems
Motor control and star-delta panels
Preventive maintenance

LANGUAGES

Arabic · native

English · professional working proficiency

EDUCATION

BEng, Electrical Power and Machines Engineering Jul 2023

Tanta University, Faculty of Engineering · Grade: Good (71.42%)

Graduation project (Excellent): isolated self-excited synchronous reluctance generator driven by a wind turbine.

Diploma, Surveying Engineering Jul 2018

El-Mataria Surveying Institute · Grade: Excellent

PROFESSIONAL DEVELOPMENT

Since 2025 BIM and Electrical Contracting Diploma

Mkademy, ongoing

2024 Distribution Diploma

Eng. Mohamed Emam

2024 Shop Drawing Course

Eng. Mohamed Emam

2024 Low Current Systems Course

Eng. Mohamed Emam

2022 Classic Control and PLC

HA Consulting Group

2022 Professional Project Management

UCCD, Tanta University

2021 Distribution Training

South Delta Electricity Distribution Company

University Electrical Power System Design

Lighting and power layouts, panel schedules, cable sizing, voltage drop and short-circuit calculations

University Motor Control Panels

Designed and built motor control and star-delta power panels

University Personal Development

Analytical decision making, personal branding and professional development

SOFT SKILLS

Team collaboration

With operations, maintenance and design teams

Communication

Clear review comments and site answers

Critical thinking

Root-cause fault diagnosis

Time management

Design and shop drawings in parallel

Working under pressure

Keeping plants running through faults

ALSO

Industrial safety compliance

Technical submittals and specifications

Code compliance reviews