

Mohamed Elshabrawy Mesalam

Electrical Engineer

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PROFESSIONAL SUMMARY

Motivated Electrical Engineer (Class of 2026) with hands-on training in power systems and BIM. Proficient in Revit MEP, AutoCAD, DIALux evo, and ETAP. Experienced in electrical shop drawings, lighting design, cable sizing, BOQ preparation, fire alarm systems, and MEP coordination using Navisworks. Seeking a junior engineer or trainee position to apply technical skills within a professional team.

EDUCATION

Bachelor of Electrical Engineering – Mansoura University

Sep 2021 – Jul 2026

Faculty of Engineering | Cumulative Grade: Very Good with Honors

PROJECTS

Graduation Project – Electrical Distribution System for a Hotel

2026

- Designed complete electrical system including power distribution, lighting layouts, and protection systems.
- Project received an Excellent grade.

BIM Project – Shopping Mall (Electrical BIM Diploma)

2026

- Developed full Revit MEP electrical model for a shopping mall.
- Covered lighting layouts, power distribution, low current systems, and BOQ preparation.
- Performed clash detection and multidisciplinary coordination using Navisworks.

Design Project – Call Centre (Electrical Distribution Diploma)

2024

- Designed full electrical system for a call centre using AutoCAD, ETAP, DIALux evo, and Excel.
- Scope included load calculations, cable sizing, single-line diagrams, and lighting design.

PROFESSIONAL EXPERIENCE

Electrical Trainee – North Delta Electricity Distribution Company

Jul 2025 – Aug 2025

- Gained exposure to MV/LV networks, substations, transformers, and fault handling procedures.
- Participated in site visits and maintenance activities under supervision.
- Developed understanding of electrical protection and switching operations.

Electrical Trainee – Talkha Power Plant

Jul 2024 – Aug 2024

- Gained exposure to power generation systems including turbines, generators, and switchgear.
- Developed understanding of protection systems and electrical safety procedures.

COURSES AND TRAINING

Electrical BIM Diploma

Jan 2026 – Mar 2026

- Revit MEP electrical modeling, lighting design, low current systems, BOQ, Navisworks clash detection.

Electrical Distribution Diploma

Jul 2024 – Sep 2024

- Full system design using AutoCAD, Excel, ETAP, and DIALux evo on a real administrative building project.

Electrical Power System Shop Drawings

Oct 2024

- Preparation of shop drawing plans for different electrical systems.

Low Current Systems Design Course

Jul 2025

- Design of fire alarm, data networks, sound systems, and CCTV systems.

BMS Course

Sep 2025

- Building automation fundamentals, HVAC control, and monitoring of building services systems.

TECHNICAL SKILLS

Software: AutoCAD, Revit MEP, DIALux evo, ETAP, Navisworks, Microsoft Office

Engineering: Electrical Shop Drawings, Lighting Design, Cable Sizing, BOQ Preparation, Fire Alarm Systems, MEP Coordination, Electrical Distribution, Low Current Systems

LANGUAGES

Arabic: Native

English: Very Good (Reading and Writing) | Good (Listening and Speaking)