EBRAHEEM MOHAMED FATHY

Electrical Engineer

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PROFESSIONAL SUMMARY

Electrical engineering student (expected graduation 2028) focused on power distribution design, technical office work and light current systems. Completed the full Electrical Distribution Diploma at Eduneers for Training & Engineering Solutions across all five tracks (Pre-Diploma, Design, Technical Office, Light Current and Implementation). Practical experience with ETAP, Ecodial, DIALux Evo and AutoCAD covering lighting design, cable and circuit breaker sizing, short-circuit studies, power factor correction, panel schedules, single line and riser diagrams, and shop drawings.

EDUCATION

Faculty of Engineering, Al Azhar University **Expected Graduation: 2028**

TRAINING & DIPLOMAS

EDUNEERS electric training diploma (Round 9), Hybrid **(July2026 – September 2026)**

- Throughout the whole round, I achieved one of the Best Ranks(1).
- Completed 3 months with individual project design phases and Final team project from conceptual to detailed design

1. Electrical design and shop drawing for several systems (Lighting, power, HVAC, MCC Panel design, Panel schedule, Earthing, and Lightning and preparing BOQ).
2. Light current design and shop drawing for several systems (fire alarm, Data System, and CCTV).
3. Panel builder (classification, specification tests, selectivity and cascading, forms of separation).
4. Took breakdown, variation orders, Invoices, and site documents overview.

- Revit (design and shop drawing) (online) **(Oct – Nov 2026)**
- KNX (design and shop drawing) (online)
- BMS (design and shop drawing) (online)

(HA Consulting Group) | (Mansoura) **(Jul 2025 – Aug 2025)**

Completed hands-on training in Classic Control and PLC Basic Programming.

- Designed and implemented 15 classic control circuits using EKTS & CADe.
- Developed 20 PLC tasks using TIA Portal, LogixPro & Factory IO.
- Programmed Siemens S7-1200, Kinco PLC, Wecon PLC & Schneider PLC.
- Integrated sensors and motor drives (Yaskawa J1000).

Kafr Elshiekh Substation | Site Visit **(Aug 2025)**

Introductory site visit covering the main components and layout of the substation.

PROJECTS

Arab Bank Building - Electrical Design (Part) | Design Track

- Lighting design & control, panel schedule preparation, cable & circuit breaker sizing.
- MEP coordination & cable tray sizing; riser diagrams and single line diagrams (SLD).
- Short-circuit calculations using ETAP, Ecodial & Excel; power factor correction.
- Tools: AutoCAD, Excel, DIALux Evo, ETAP, Ecodial.

Dialysis Center - Lighting Design (DIALux Evo) | Pre-Diploma Track

- Comprehensive 3D modeling with furniture and material textures for accurate light interaction.
- Glare-free uniform lighting for reception and hallways; Barrisol stretch-ceiling lighting in the pharmacy zone.
- Task, decorative and accent lighting for management offices; exterior architectural lighting with bollard and in-ground luminaires.

Light Current Systems - Design & Shop Drawings (Multi-floor building) | Light Current Track

- Fire alarm system: device layouts for three floors, cable quantities and SLD (FACP with 3 loops, battery backup, interfacing with mechanical and security systems).
- IP structured cabling: data racks, patch panels, switches and outlet mappings per floor.
- CCTV system: camera schedule with fixed IP PoE domes, NVR and storage sizing, riser diagrams.
- Access control: TCP/IP door controllers, junction box details and riser diagrams interfaced with the fire alarm system.

Electrical Shop Drawings | Technical Office Internship

- Lighting plans with accurate fixture positioning; small power plans (outlets and switches mapping); cable routing plans; plotting and printing at appropriate scale.

SKILLS

- **Computer Skills:** AutoCAD, Revit, ETAP, Ecodial, DIALux Evo, TIA Portal, LogixPro, Factory IO, EKTS & CADe.
- **Microsoft Office:** Word, PowerPoint & Excel.

LANGUAGES

- **Arabic:** Native.
- **English:** Very good in Speaking, Reading and Listening.

PERSONAL INFORMATION

- **Date of Birth:** 25/3/2006. **Marital Status:** Single.