

**Abdelrahman Mahmoud Fathy**

**Date of Birth:** September 1,1998

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**Military Status:** Exemption

**Marital Status:** Single

## **Summary:**

Electrical Engineer +3 years of experience in electrical design & shop-drawing and cost estimation & control field, active supervision at Data center (IT load), infra structure and MV - LV networks. Experienced with almost stages of the design & shop-drawing cycle for the projects.

## **Education:**

**Bachelor Degree of Engineering**, Misr University for Science and Technology, Faculty of Engineering July, 2021

- **Department:** Electrical Engineering.
- **Major:** Electrical Power and Machines.
- **Specialty:** consulting engineering foundation as electrical design & technical office engineer.
- **Accumulative Grade:** Very Good.
- **Graduation Project:** An integrated compound infrastructure & Design of Electric distribution and light current systems for a Bank.
- **Preparing for fundamental engineering (FE).**

## **Work Experience :**

### **1. Kenana Construction & Steel (from April 2024-till now)**

**Position:** Electrical Engineer (Technical office & Tender engineer)

- Responsible for Cost estimation.
- Responsible for Cost control.
- Responsible for Shop Drawings.
- Responsible for preparing BOQ
- Responsible for Selection of Materials and Equipment.
- Responsible for Approval of Materials and Samples.
- Responsible for D.C. Works (RFI, MIR, IR, QS)
- Responsible for As-Built Drawings.
- **PROJECTS:**
  - **Kun sport office** – Riyadh City (Design &Shop-drawing& cost estimation and control).
  - **Kun sport Gym** – Jubail City (Shop-drawing& cost estimation and control).

### **2. EMS Group (From Feb 2024 to July 2024)**

**Position:** Electrical Engineer (BIM design engineer).

- **PROJECTS:**
  - **AL Zahraa School (BIM Design).**
  - **Katamish Villa (Design).**
  - **Libya Hospital (Design).**
  - **School of ALgelm el nafig (BIM Design).**
  - **Sodic (BIM Design).**
  - **Zahraa El Nassim School (BIM Design).**
  - **Villa Palm Hills (Design).**
  - **Hilton Damam (Design).**

### 3. United Advanced Building System-UABS (from July 2021 to Feb 2024)

#### Position: Electrical Engineer (Technical office)

- Responsible for Shop Drawings.
- Responsible for preparing BOQ
- Responsible for Selection of Materials and Equipment.
- Responsible for Approval of Materials and Samples.
- Responsible for D.C. Works (RFI, MIR, IR, QS)
- Responsible for As-Built Drawings.

#### ➤ PROJECTS:

##### ▪ City Operation Center (COC) - New Administrative Capital.

The project contains (the main administrative building & utility building & data center)

We obtained a certificate from (UPTIME INSTITUTE Tier III) that A Tier III data center is concurrently maintainable with redundant components with redundant distribution paths to serve the critical environment these facilities require no shutdowns when equipment needs maintenance or replacement. The components of Tier III are added to Tier II components so that any part can be shut- down without impacting IT operation and the infrastructure is designed to support a 2.037-kilowatts (kw) it load, spread between data hall 1(965kw), data hall 2 (965kw) x-connect room 1 (48kw), and x-connect room 2 (60kw).the it load in both data halls is alternating current (ac) and in both x-connect rooms it is direct current (dc).

and these bulk components equipment include:

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|--|--|
| 1) MVSG (27 cells).  | 2) No.of 17-Transformers (1600 KVA).         |
| 3) No.of 8-MDBs (main distribution board) each one had (2 out of 5). |  |
| 4) No.of 9-POPs (parallel operation panel).                          | 5) No.of 12-GPs (generator panel).           |
| 6) No.of 14-Engine generators.                                       | 7) No.of 20-UPS modules with ratings 2.5MVA. |
| 8) No.of 7-chillers.   | 9) Energy storage.                           |
| 10) Cooling units.   | 11) Pumps.                                   |
| 12) Heat rejection equipment.  | 13) Fuel tanks.                              |

##### ▪ Sheraton Sports Club - Sheraton District.

##### ▪ Al-minya University Infrastructure – MINYA CITY.

##### ▪ Mansoura 3 - 702 BUILDING – THEATER HALL -703 Façade lighting - New Administrative Capital

##### ▪ MAIN SPINE B06 & B01 - New Administrative Capital

### 4. U.E.G Engineering Office (From Sep 2021 to May 2024)

#### Electrical Engineer (Designer AS A PART-TIME)

#### Position: TENDER Engineer.

#### ➤ PROJECTS:

- Capmas **(DESIGN)**
- Sadat Hotel **(DESIGN)**
- Moon Land Hotel **(DESIGN)**
- Saudi (D5-KITKAT-ZAYED) Hyper Market **(DESIGN)**
- Al Ahly Bank (Fowa) **(DESIGN)**
- Al Ahly Bank (El Matrya) **(DESIGN)**
- Sama Mall Zayed **(DESIGN)**
- Baltim Hospital **(DESIGN & SHOPDRAWING)**
- SPINNEYS-GLEEM **(DESIGN)**
- SPINNEYS-Dokki **(DESIGN)**
- SPINNEYS-Swan-lake **(DESIGN)**
- SPINNEYS- Mohandesin Gazerat Al Arab **(DESIGN)**
- SPINNEYS-5<sup>th</sup> Settlement **(DESIGN)**
- Nova mall **(DESIGN)**
- Sohag institute **(DESIGN)**
- CAYO-Mall **(SHOPDRAWING)**
- MERCUY-Mall **(SHOPDRAWING)**
- AIRLIQUIDE OFFICE SPACE **(DESIGN)**
- EL SEWEDY -MEETERS **(DESIGN)**
- KIDS AREA **(DESIGN)**

- NBE Bank **(DESIGN)**
- show room **(DESIGN)**
- marina hotel **(DESIGN)**
- Administrative offices **(DESIGN)**

### **Under Graduate Training & Internships**

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Trainee, <b>Distribution course at HA consulting Group</b>	<b>2019 - 2020</b>
<ul style="list-style-type: none"> <li>➤ Attended an interactive training Provided by the engineers of the company covering the following points:           <ul style="list-style-type: none"> <li>▪ Infrastructure Design Applied to (Hyde park, Mivida, sarai)</li> <li>▪ Bank Design.</li> </ul> </li> </ul>	
Trainee, <b>Cairo Electricity Production Company Cairo North</b>	<b>2/9/2019 - 17/9/2019</b>
<ul style="list-style-type: none"> <li>▪ Gained information concerning Basic Operating Steam Turbine &amp; Panel boards.</li> <li>▪ Gained information concerning Medium Voltage Switchgear.</li> </ul>	
Trainee, <b>Petrobel Abu madi gas field</b>	<b>2018 – 2019</b>
<ul style="list-style-type: none"> <li>▪ Gained information about Classic control</li> </ul>	
Trainee, <b>Petrobel Abu rudeis Gas Station</b>	<b>2017 – 2018</b>
<ul style="list-style-type: none"> <li>▪ Gained information about Generation.</li> </ul>	
Trainee, <b>Autodesk Autocad At Misr University For Science and Technology</b>	<b>2016 – 2017</b>

### **Technical Courses**

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#### **National Electrical Code Course (self-study)**

#### **Electrical Power System Design and Shop drawing for a hospital.**

- Panel schedule, Cable routing, Circuit breaker (Type and Sizing),
- Sizing of Transformer, diesel generator, UPS and power factor correction
- Space Program

#### **Automation**

- Classic Control
- PLC (beginner).

#### **Low Current Systems Design Course**

- Fire alarm system, public address system, Data system, telephone (IP& digital) system, Access control system, Intrusion
- System, CCTV System, Audio Video (AV) System.

#### **Feeding System (LV&MV) According to electricity company**

#### **Smart solution**

- BMS
- Dimming systems (0-10V& DALI& Phase cut dimming& Leading edge& Trailing edge)
- KNX System (switch, blind, dimming, sensors, scene)
- Mobile Application with KNX

#### **I have knowledge of local and international codes and a good researcher**

#### **Skills**

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- **Language:**
  - ✓ Arabic: Native Language
  - ✓ English: Very Good
- **Computer:**
  - ✓ Revit Electrical (Design& Shopdrawing).
  - ✓ AutoCad electrical.
  - ✓ Dialux & Dialux Evo.
  - ✓ ETAP.
  - ✓ Ecodial.
  - ✓ ETS.
  - ✓ EKTS.
  - ✓ Fatek PLC simulator.
  - ✓ TIA port.
  - ✓ Microsoft Office (MS Word – MS Excel – MS PowerPoint).