

Malek Talal Mohamed Ahmed

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Objective

Junior Electrical Design Engineer, driven by a profound passion for innovation in the realm of Building Information Modeling (BIM) technology.

Education

- Bachelor of Engineering, Cairo University (2016-2021).
Major: Electrical Power and Machine.
- **Graduation Project:**
 - Design of the Electrical Installation for a water desalination plant using different software such as AutoCAD, Dialux & Ecodial.
 - Implemented a Photovoltaic system (PV) with **PVsys** & design a wind farm using **windpro** software.

Sponsored by: El-Sewedy Electric -Proservice - Schnider Electric

Graduation Project Grade: Excellent

Work Experience

- Electrical Design Engineer at **NAGA Architects**.

Previous Duties

- Responsible for developing the Conceptual Design.
- Preparing the required Calculation, Documents & Drawing.
- Developing the BIM Model According to LOD.

Project:

AL-FURSAN / NHC (National Housing)

- Designing the Dry Utility network (Street Lighting - LV - MV) For the Residential and Private Building.

AZZIA / NHC

- Developing the Design Documents regarding Dry Utility Network.

- Electrical Design Engineer at **Misr Consult**.

Previous Duties

- Developing the required shop drawing.
- Preparing technical documentation and implementing material bills for the systems.
- Reviewing technical offer & needed submittal.

Project:
Qiddiya

- MEP Shop drawing for FCR waste plant. In addition to developing a BIM model.

King Faisal Specialist Hospital & Research Center

- Hospital renovation project, developing a BIM model simulates different works aspect during the renovation process.

The New Administration Capital Feeding Plant.

- Handling & Developing Shop drawing related to all five-pump stations & its water treatment plant.

Toshka irrigation 375000 acres

- Revising contractor submittals, calculations & drawing for all the project's electrical equipment

▪ Sales Engineer at **United for Electromechanical Supplies.**

Previous Duties

- Building new relation & follow up with previous customer.
- Collaboration with the foreign agent team regarding the sales & marketing plan.

Training / Internships

Participant at Eduvate - Cairo North CCPP Training center - Cairo South Power Station Mokattam Institution

Courses & Workshops

Courses

- Electrical Power Distribution Diploma at **Eduvate**.
 - Whole knowledge of Design concept with all its requirements (load estimation-bulking – tie categorization -zoning).
 - Executing schematic & detailed design drawing.
 - Intermediate knowledge of electrical shop drawing.
 - Light Current System course.
 - The different system included withing the light current department.
 - The required connection for each system & it's sub-devices.
 - Preparing the required cad drawing for instillation.
 - Automation: Classic Control, PLC with Siemens Hardware (Practical Practice) & Motor Drive Basic Practical Practice at **HA Consultant Group**.
 - E-Plan Electrical P8
 - Structure in EPLAN, how to create, copy, delete, rename project/page.
 - Basic circuit diagrams drawing - motor overload switch, contactor, cable, terminal, circuit breaker & panel board modeling.
 - Exporting EPLAN Project to PDF and DXF/DWG
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Skills

Technical

- Revit, Navisworks
- AutoCAD, Dialux & Dialux EVO
- ETAP, Ecodial
- Civil 3D (Electrical)
- **Office 365**

➤ **Languages:** ENGLISH – QUITE GOOD