

Meryam Raafat Abdul-Malak Bilatus

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Profile

An Electrical Power and Machines Engineer, knowledgeable about Electrical Design Systems, Infrastructure Design, Low Current Systems, and Shop Drawing for the most common systems, and also a beginner in the control field. With excellent interpersonal skills, and the ability to deliver information, in addition to the ability of learning quickly and working under pressure, seeking for a teaching assistant position to enhance my abilities, and strengthen my knowledge to grow along with organizational goals.

Education

Bachelor degree in Electrical Power and Machines Engineering, 2018 – 2023
El-Shorouk Academy
Grade: Very Good with honours

Graduation Project

Fully controlled vertical farming

Fully Controlled Aeroponic Vertical Farming using PLC and HMI to control plant growth and the environment surrounding it by controlling temperature, humidity, and airflow in the environment.

Project Sponsored By: Schneider Electric, Platinum Group, Plug'n'Grow.

Grade: Excellent

Courses

Electrical Distribution Professional Diploma, *Eduvate* 2022 Jul – 2022 Oct

- Electrical Distribution Design for Administrative Building.
- Applied Load Estimation, Zoning, Bulk Equipment Sizing, LV & MV Switch Gears, Space Program, Lighting & Power Design, Panel Schedule, CB & Cable Sizing, Cable Routing, VD & SC Calculations, Earthing & Lightning Protection and Detailed SLD.

Trainings

Automation-PLC, *Schneider Electric* 2022 Dec

Cables Training, *El-Sewedy Electric Cable Accessories* 2022 Aug
Theoretical and practical training at the factory in the 10th of Ramadan City about MV Cable Accessories.
(Three core terminator/ Elbow connector/ Splice joint)

Automation Systems Workshop, *Egyptian Engineers Syndicate* 2021 Oct

Summer Training, Cairo Electricity Production Company
The program included: Welding Cables/ Winding Motors/ Classic Control/
Installations/ Generation Sequence/ Protection Devices.

2021 Sep – 2021 Oct

Summer Training, El-Shorouk Academy
The Program included: Electrical Installations and Classic Control.

2021 Aug – 2021 Sep

Projects

Fully Controlled Vertical Farming, Graduation Project
Conducting the Project's Feasibility Study in specifically the Financial Studies using Microsoft Office.

Infrastructure, Systems Design Subject

The project was designed for a compound that contains 150 residential buildings, Mosque, School, and Green Area.

Using 7 transformers of 1 MVA rating in two loops of 22 KV MV switchgear.

Steps of infrastructure design:

- Load Estimation as per Egyptian code.
- Distribution of LV network.
- Intersections between Pillars to increase the reliability.
- Distribution of MV network with intersection between the two loops.

Eduvate

- Design of a University using AutoCAD.
- Design of Healthcare Hospital using AutoCAD.
- Design of Villa using Revit.

Smart Garage using Arduino, Third Year Project

PV system simulation using MATLAB, Third Year Project

Software Skills

- AutoCAD
- Microsoft Office
- Arduino
- Revit
- MATLAB
- PLC Programming
- DIALux Red, DIALux evo
- ETAP

Languages

Arabic

Native speaker

English

Good speaking and writing

Soft Skills

Communication, Team working, Problem solving, Hard working, Time Management, Leadership.