

# Esmail Ebrahim Hemida CEM®

## Contact information

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## Summary

Electrical engineer with 2 years work experience in operating, maintenance, control, instrumentation, solar power plants implementation, energy management and energy audit at Egyptian Holding Company of Water and Wastewater and Certified Energy Manager (CEM) from American association of energy engineers (AEE).

## Experience

**(Sep 2022 - Present)** operation, maintenance, control, solar power plants implementation, energy management and energy auditing at Holding Company for Water and WasteWater (HCWW)

**(Jul.2017 - Aug.2022)** operation and maintenance technician at Holding Company for Water and Wastewater (HCWW)

## Education

**2017 – 2022**

B.Sc. in Electrical Power and Machines, Faculty of Engineering, Tanta University.

Grade: Very Good (81.6%)

### Graduation Project:

Grade: Excellent (95%)

Standalone PV-diesel hybrid system design

Optimal Sizing Supported By Maximum Power Point Tracking Techniques of a Hybrid PV-diesel System for Stand-alone Operation.

## Internships

**(Feb 2023 - Dec 2023)** Tarsheed Company Partner of AEE “Energy Management”

**(Nov 2021 - Dec 2021)** AUC - School of Continuing Education “Business English”

**(Sep 2021 - Sep 2021)** The American University in Cairo “Introduction to occupational health and safety”

## Training and Courses

- **(Summer –2021)** Electrical maintenance and operation training in Silo and Storage Holding Company
- **(July 2017 - Feb 2018)** Operation and maintenance of water treatment plants training in Holding Company of Water and Wastewater
- Classic control course
- PLC course
- Solar power plants design course
- Light current systems design course

## Technical Projects

- Installing ultrasonic flowmeters, pressure measuring devices, inverter and soft starters in water treatment plants.
- Energy audit for water treatment plants (Estad water plant, Ab-gendy water plant and Nisheel water plant)
- Design and building power factor correction panels (Algalaa water plant, Kafr el zayat water plant, Sanadeed waste water plant, Segaeia water plant, Deyma water plant, Magzar wastewater plant)
- Implementation energy saving plan in 2022 at all sites of Holding Company for the water and wastewater
- Implementation on grid solar power plants
- Establish specifications and Bill of quantities for the following projects: purchasing electrical spare parts for all applications in the company, implementing power factor correction panels, maintaining soft start devices, implementing medium voltage panels, and implementing solar energy stations.

## Technical Skills

- |           |                       |
|-----------|-----------------------|
| - MATLAB  | - Technical reporting |
| - PVsyst  | - Sketchup            |
| - AutoCAD | - PV*SOL              |
| - HOMER   | - Classic Control     |
| - PLC     | - Illustrator         |
| - ECTS    |                       |

## Language skills

- Arabic : Mother tongue
- English:Very Good

## Interpersonal skills

- |                                     |                       |
|-------------------------------------|-----------------------|
| - Teamwork                          | - Time Management     |
| - Communication skills with others. | - Problem Solving     |
| - Eager to learn & develop.         | - Presentation skills |

## Achievements

6th place on the department of power and electrical machines, faculty of engineering, Tanta university

## Personal Info

Gender: Male

Date of Birth: July 4, 1999

Mobility: Willing to relocate

## References

Available upon request