

# Mahmoud Basiouny

10th of Ramadan City, Egypt 44634 | +201011943489  
m@basiouny.me | www.basiouny.me

Experienced Solar PV Designer with a strong track record of designing over 700 residential solar projects, exceeding 5 MW in total proposed capacity. Proficient in CAD software, Solargraf, and certified in NABCEP and OSHA. Well-versed in Canadian Electrical Code (CEC) standards. Looking to contribute my skills and passion for sustainable energy solutions to a dynamic Solar Industry role.

## EXPERIENCE

### Solar PV Designer

Apr 2023 - Sep 2023

Solara Energy, Canada

- Conceived proposals for over 700 residential solar projects, collectively amassing a total capacity exceeding 5 MW.
- Analyzed energy requirements, optimized system configurations, and selected appropriate equipment.
- Used CAD software and Solargraf to create precise solar layouts, ensuring compliance with CEC standards.
- Maximized energy production and efficiency through shade and weather data analysis.
- Prepared detailed client proposals, including system design, project timelines, and cost analysis.
- Created Single Line Diagrams for solar PV systems, ensuring compliance with safety standards and utility requirements.

### Energy Audit Engineer

Aug 2022 - Feb 2023

Zagazig University, Egypt

- Led the technical and financial design of a 3 MW solar plant.
- Conducted energy audits for buildings and systems within the university campus to identify energy efficiency opportunities and cost savings.
- Analyzed energy consumption data, building systems, and equipment to identify energy efficiency measures and recommended cost-effective solutions.
- Prepared detailed reports on energy audits and recommended actions to improve energy efficiency.

### PV Asset Management Engineer

Oct 2021 - Jul 2022

Zagazig University, Egypt

- Managed the operation and maintenance of a 105-kW solar energy plant, ensuring optimal energy production and equipment performance.
- Monitored and analyzed system performance, identified issues, and scheduled regular maintenance to maintain peak efficiency.

## EDUCATION

### Bachelor of Science (B.S.) - Mechanical Engineering

2016 - 2022

Zagazig University, Egypt

## SKILLS

PVsyst, AutoCAD, SketchUP, Solargraf, Microsoft Office, SAM, Solar Energy

## LICENSES & CERTIFICATIONS

**NABCEP** 2023  
*HeatSpring*

**OSHA** 2023  
*CLICKSAFETY*

## VOLUNTEER

**Founder** 2017  
ZigZag Club  
Established ZigZag Club at Zagazig University with a visionary mission to cultivate innovative thinkers, skilled leaders, and proficient creators. Our focus on refining educational approaches and promoting excellence in various scientific and technological fields empowers members with comprehensive knowledge and expertise.

## REFERENCES

**Moustafa Daoud**  
**Founder** – Solara Energy  
British Columbia, Canada  
+12505759130  
[moustafa@solaraenergy.tech](mailto:moustafa@solaraenergy.tech)  
Relationship: Direct manager at Solara Energy

**Dr Hafez El-Salmawy**  
**Professor** – Zagazig University  
Zagazig, Egypt  
+201223186900  
[hfsalmawy@gmail.com](mailto:hfsalmawy@gmail.com)  
Relationship: Supervisor & Mentor