

Holds a B. Sc. in Electrical Power & Machines Engineering and has over 2 years hands-on experience working in construction and design of solar and renewable energy.

## PERSONAL DATA

Nationality : Egyptian  
Gender : Male  
Residence : Nasr City, Cairo

## EDUCATION

: B. Sc. in Electrical Power & Machines Engineering, Tanta University, 2018

## LANGUAGES

Arabic : Native Language  
English : Very Good

## COMPUTER SKILLS

: Windows, MS Office, Internet  
: PVSys  
: AutoCAD  
: Sketch up  
: Photoshop  
: Matlab

## TRAINING COURSES AND CERTIFICATIONS

: Online Courses:  
• PV Technology and Designing.  
• Variable Frequency Drive.  
: Coursera:  
• Renewable energy schemes.  
• Motors and motor control circuit.  
• Electrical power systems.  
• Improve English communication skills:  
- Speak English Professionally (in person, online & phone).  
- Write Professional E-Mail in English.  
: Schneider Electric Online Courses:  
• Controlling the Impact of Power Factor.  
• Power Distribution.

## CHRONOLOGICAL EXPERIENCE RECORD

**Dates** : From Dec. 2020 till now  
**Employer** : Circuit One (Green Buildings, KNX and Solar Energy)  
**Job title** : Solar Design & Performance Engineer  
**Job Description** :

- Participate in the site visits and the information collection in the requirement data gathering phase in order to develop the budgetary offer.
- Attend the technical discussions with the client and the commercial team during the designing phase to best understand the client's needs and develop a solution that best matches them.
- Responsible for proper filing and standardization of plans.
- Support in costing of the electrical works in different projects.
- Choose between the different solutions the best electrical alternative for the respected projects.
- Feasibility studies and alternative evaluation.
- TEPCO 1MW Project:
  - Plant inspection, and preparing the Inspection report.
  - Preventive and corrective maintenance plan, and schedule.

**Dates** : From Mar. 2020 till Nov. 2020  
**Employer** : ARINNA Solar Power S.A.E - The Owner Company of ARINNA plot of 25MW in Benban Solar Park  
**Job title** : Solar Generation Performance Engineer  
**Job Description** :

- Lead standardization of operations and maintenance and engineering processes including reporting functions.
- Support the solar projects in developing for inverters, trackers, and panel faults.
- Support operational reviews, solar site commissioning, end of warranty inspections and procurement to ensure proper equipment selection and operation.
- Work with site teams and asset management to evaluate and develop site improvement.
- SCADA Monitoring and supervision:
  - Monitoring the (ARINNA) Plant of 25MW and Energy Production.
  - Data analysis for losses, availability, losses in revenue calculations.
- Inverter Retrofit Project for 115MW - BENBAN (Aug. - Nov. 2020):
  - Working as a part of the owner team to choose the suitable inverter brand and review offers of the inverter replacement.
  - Work with the team to prepare the method of statement and risk assessment related to inverter replacement project.
- Business Development Department – Part Time:
  - These Companies related to ARINNA Owners:
    - ❖ Texas Constructors International INC - USA, Las Vegas.
    - ❖ Sharm Reef Solar S.A.E - Cairo, Egypt.
  - Renewable Energy Design Engineer:
    - ❖ El-Wahat Hybrid 1MW Project with Gila Al-Tawakol (Consultant).
    - ❖ Al-Tawakol NTT Rooftop 200 KW (Developer).

- ❖ Al-Tawakol Galvanization Factory Rooftop 300 KW (Developer).
- ❖ O1 Mall Rooftop 200 KW (Developer).
- Supporting future business development projects.
- All projects requirements including (site visits, and technical discussions with clients, or Off takers).
- Constant market research to remain up to date with the market and the competition.
- Making all Preliminary designs including (SLD, PVSYS Reports and 3D Design using Sketch up).
- PV System calculations and sizing for all equipment's and also the BOQ.

**Dates** : From Jan. 2020 till Apr. 2020  
**Employer** : Freelancing / Self-employed  
**Job title** : Freelance Design Engineer  
**Job Description** :
 

- Work as a Freelance Design Engineer for all PV systems types (Off-grid, On-grid and Solar pump), Preliminary & As built designs.
- Handling all design package including (SLD, Schematic, Layout and energy production estimation) using: AutoCAD, PVSYS and Sketch up.
- PV system C.B & Cables sizing and all components calculations.

**Dates** : From Nov. 2018 till Dec. 2019  
**Employer** : M.S.P for Installation & Contracting  
**Job title** : Renewable Energy Design & Site Engineer  
**Job Description** :
 

- Work as Design and Site Engineer for 3MW Solar Pump systems with variable capacities up to 175 KW, and also OFF-Grid systems up to 20 KW as a total capacity of 150KWp.
- Making full Design package including (SLD, Wiring, Energy production estimation and Layout).
- Preparing technical Proposals, and Achieve client's requirements.
- Construction, Installation, Commissioning, and Operation, with (trackers and fixed) systems.
- Preparing and managing maintenance schedules for all System components (Off-grid & Solar pump systems).
- Sales Department advisor.