

101921-ELE-59CDEG-E-2005
Renewable Energy & Energy Efficiency Instructor

Holds B. Sc. in Electrical Electronics Engineering and M. Sc. in Renewable Energy. Has about 17 years of experience in Renewable Energy field.

PERSONAL DATA

Nationality : Egyptian
Birth Date : 01/08/1983
Gender : Male
Residence : Moqattam, Cairo

EDUCATION

- : B. Sc. in Electrical Electronics Engineering, Zagazig University, 2005
- : M. Sc. in Renewable Energy in Energy Efficiency in MENA Region, Kassel University, Germany, 2014

LANGUAGES

Arabic : Native Language
English : Excellent
German : Very Good
French : Good

COMPUTER SKILLS

- : Windows, MS Office (Word, Excel, Power Point), Internet
- : PV Syst
- : SMA Sunny Web Design / Sketch up / PVTools / Helioscope
- : Video Conferencing (Zoom Skype Google Hangout) / Social Media / Google Gmail Google Drive Google Docs Google Slides / Social Media Management (Social Ads)

TRAINING COURSES AND CERTIFICATIONS

- : Planning and Design of PV Power Plants, SMA Solar Academy, Kassel, Germany (Jun. 2013).
- : Communication in Large Scale PV Power Plants, SMA Solar Academy, Kassel, Germany (Jun. 2006).
- : Inverters for PV Power Plants, SMA Solar Academy, Kassel, Germany (Jun. 2013).
- : Capacity of Works in Renewable Energy Projects, GIZ GmbH, Eschborn, Germany (May 2013).
- : Renewable Energy Projects Financing, KfW GmbH, Frankfurt, Germany (Apr. 2013).

: International Training Workshop on Production & Utilization of the Solar Cells, China Electric Equipment Group Co. Ltd, Nanjing, China (Oct. 2009).

CHRONOLOGICAL EXPERIENCE RECORD

Date : From Jan. 2022 till now
Employer : Oil & Gas Skills (OGS), Cairo
Job title : Renewable Energy & Energy Efficiency Instructor
Job Description :

- RE Instructor for the Employees in the Egyptian Oil and Gas group of Companies.
- Focused exclusively on the Renewable Energy market, this brand partner with all business sizes.
- Instruct classroom and hands-on application of Renewable Energies (Solar, Wind, Bio waste, Geothermal, Hydropower and Green Hydrogen) with the concept of Energy Saving.

Date : From Jan. 2022 till now
Employer : RT-entrepreneurs, Cairo
Job title : Energy Transition and Green Hydrogen Production Manager
Job Description :

- Development of delivery capability for hydrogen related projects for utility, industrial, transportation and municipal clients.
- Work closely across operations, sales, and technology functions providing leadership as expanding to a hydrogen project.
- An extensive client dialogue, team building, and development of differentiating strategies.
- Scope and manage technical and feasibility studies and delivery projects relating to hydrogen production technologies as well as hydrogen management and downstream use in the energy, transport and industrial sectors.

Date : From Jul. 2021 till now
Employer : Suncapture, KSA
Job title : Senior Solar Energy Technical Manager (working remotely)
Job Description :

- Provide conceptual and detailed designs of solar PV Projects including site layouts and annual energy yield estimates.
- Technically support and take a lead role in the development, engineering construction and testing phases of utility scale PV solar Projects.
- Perform solar engineering role to provide technical support on specific Projects including Project specification review, progress tracking, and working in an integration role for various technical disciplines.
- Draft, review and approve energy yield calculations using energy simulation tools such as PVSYST, SKETCHUP, ...etc.

Date : From Nov. 2015 till Jul. 2022
Employer : Advanced Vision Morocco, Cairo
Job title : Head of Renewable Energy Department

Job Description :

- Lead and participate in the development of energy projects under the Compacts by conducting, among others: technical assessment of constraints analyses.
- Coordination with consultants on feasibility assessments and other appraisal of energy projects.
- Lead and participate in the implementation of energy projects under the Compacts through, among others, the use of appropriate project management tools to track implementation progress, as well as anticipate, identify and mitigate various implementation risks.
- Work concurrently as a member of multiple multi-disciplinary country teams.
- Report on project-related implementation risks, providing input to risk management plans and risk analyses.
- Prepare relevant documentation and reports, and maintain the required databases during implementation of projects.
- Perform other tasks as assigned from time to time.

Date : From Dec. 2014 till Nov. 2015

Employer : Arab International Optronics (EGY Ministry of Defense), Cairo

Job title : Renewable Energy Projects Manager

Job Description :

- Studying the customer requirements and suppliers' quotations.
 - Design of PV systems from the kWp to MWp range.
 - Selection and costing of components (modules, inverters, cables, frame, etc.).
- Preparing all contractual documents and AIO.
- Obtaining signed contract/order from customer, closing processing customer order within the company procedures/ regulations.
- Control and Co-ordinate within the company and customer all related activities.
- Preparation of financial documents to customers and chasing collections.
- Designing and implementing for different Solar Energy projects capacities and choose the best goods for obtaining the projects.
- Technical advisory to the company for the different renewable energy projects.

Date : From Dec. 2013 till Dec. 2014

Employer : Fraunhofer - Institute für Solare Energie system ISE, Freiberg - Germany

Job title : Scientific Research Assistant

Job Description :

- To investigate the Potential Induced Degradation (PID) problem time dependent measurements shall be carried out under various test conditions, such as high voltages, different surface resistances, different glasses, etc.
- Different types of silicon solar cell modules (glass - glass, glass - foil) shall be investigated. In addition, special mini-modules using varying glass materials have been made, further module structures shall be made and investigated.
- The performance of the modules before and after the leakage tests is characterized by current voltage measurements, EL and infrared thermography.

Date : From Mar. 2006 till Feb. 2013
Employer : Arab International Optronics (EGY Ministry of Defense)
Job title : Solar Cells Manufacturing Process Engineer
Job Description :

- Analyze of experimental and production data to enhance the cells efficiency.
- Make an Innovative solutions for any kind of problems in the production appeared.
- Manage training sessions for the team work of 25 workers.
- Technical supervision of measuring instruments for solar cell characterization and quality assurance.
- Assist in solar cell development, process optimization and troubleshooting for all the process steps (Doping & Diffusion, PECVD-ARC and Metallization).
- Analyses evaluation, development and introduction of new Measurement methods for process monitoring.
- Participation in and management of research and development projects in the fields of meteorology, characterization and solar cell development.
- Plan, Execute and Control the Production Activity.
- Control and Optimize the Available Resources in the Shop to Achieve or Better the Production Target to Meet the Sales Program.
- Correct Any Deviation in Process or Consumable Material to Enable Continuous Operation and Ensure Quality Output.
- Provide technical advice to Projects Department and facility planning on technology requirements, optimization, control, operating procedures, and troubleshooting.
- Maintain up to date with the latest technical developments in Solar Energy sectors. Provide input to project innovation reviews where requested.

Field of experience :

- Electrical Consultant in Renewable Energy field by the Egyptian Engineering Syndicate.
- Energy Transition and Green Hydrogen Production Consultant.
- Renewable Energy and Green Hydrogen Expert, responsible for the full range of project development activities.
- Researcher Assistant in the PV Solar Modules levels for detecting the problems during the project levels phase.
- Highly qualified PV mono-crystalline solar cells process engineer with a proven track record of 7 years of experience in developing, designing and managing the execution of manufacturing solar cells process.

Publications:

- Voltage and Time Dependence of the Potential Induced Degradation (PID) Effect on Different Kinds of Solar Modules (2015).
- Procedures to Determine the Concentration of Mobile Charges during the High Voltage PID Test on Silicon Solar Cells Modules.