

P. KARTHICK

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Objective

Seeking new challenging job to converge my professional experience and aptitude for enhancing the growth of the organization coupled with improving my learning curve in a linear fashion towards the overall functional & personality development in order to face the challenging time ahead.

Highlights

- Optimistic Nature
- Good at organizing skills
- Efficient Team Leader
- Fast Learner

Professional Experience

Work experience in the field of Solar: **4 yrs & 7 months**

Professional Responsibilities

- Conduct engineering site audits to collect structural, electrical and related site information for use in the design of residential or commercial solar power systems.
- Design or coordinate in design of photovoltaic (PV) system including system components for residential and commercial buildings.
- Preparing technical BoM and technical presentation.
- Examining proper functioning of inverter.
- Provide technical direction or support to installation teams during installation, start-up, testing, system commissioning and performance monitoring.
- Providing Net-metering facility for the site with proper approval from AE/AD of TNEB. Also co-coordinating with Chief Electrical Inspectorate for CIEG inspection for solving solar PV technical issues.
- Creating checklists for review or inspection of completed solar installation projects.
- Creating electrical single-line diagrams, panel connection diagrams for solar electric systems using computer-aided design (CAD) software.
- Create plans for solar energy system development, monitoring and evaluation activities.
- Developing design specifications and functional requirements for residential, commercial or industrial solar energy systems or components.
- Develop standard operation procedures and quality or safety standards for solar installation work.
- Perform cost reduction analyses for solar systems.
- Review specifications and recommend engineering or manufacturing changes to achieve solar design objectives.
- Test or evaluate photovoltaic (PV) modules or array.

Present Work Place

Company: Evolve India Solar Pvt. Ltd - **Nov, 2015 – Present**

Designation: Senior Technical Engineer

Responsibilities

- Configuration of Solar Photovoltaic System for Grid tie and Off Grid system.
- Performing Site Visit and Load Analysis
- Installation of Solar projects from home based to industrial needs ranging between 1kW to MW.
- Fixing Errors in the Grid tie Inverters
- R&D - To study and scrutinize about the performance and characterization of Solar PV Plant.

** Please look over the last page for projects handled so far

Previous Work Place

Company: VATIO Energy India Pvt. Ltd - **Nov, 2013 – Oct, 2015**

Designation: Application Engineer

Responsibilities

- Configuration of Solar Photovoltaic System for Grid tie and Off Grid system.
- Managing Solar Training Courses for private & government funded candidates such as TATTI - Chennai, NISE, TEDA to name a few.
- Installation of Solar projects from home based to industrial needs ranging between 1KW to 30KW.
- Office Administration.
- R&D - To study and scrutinize about the performance and characterization of Solar PV Plant.

* Please look over the last page for projects handled so far

Activities Performed in Company Environment

- Participated in Training program on “Zever Solar Inverter” at Mumbai.
- Prepared Master book on “Solar Photovoltaic” for the Solar Training Course.
- Handled Solar Training classes for more than 26 batches having 50 students in each batch and also trained students for three MNRE sponsored programmes.
- Handled solar training class for National Institute of Solar Energy [NISE] under “SURYAN and KONARK Training Programmes” for Technicians and Installers.
- As a Program Coordinator - Conducted one day seminar on **SOLAR Pro_{ver.4.2}** at Anna University in association with Laplace systems - Japan and Rogress Techno - India.

Technical skills

- Knowledge of MATLAB, MULTISIM, AUTOCAD & PVSyst
- Familiar with All versions of Microsoft Operating Systems and Linux
- Hard core knowledge on Electrical & Electronics Engineering
- Basic Knowledge of C and C++

Field of Interest

- Power Generation, Transmission and Distribution
- Power Electronics and Drives, Electrical Machines

Co-Curricular Activities

- Attended one month Solar Training Program organized by TATTI with support from Tamilnadu Energy Development Agency (TEDA).
- Bagged 3rd Prize for Academic studies in CMS College of Engineering, Namakkal.
- Published one international conference paper on “A solar panel connected multilevel inverter with SVM using fuzzy logic controller” in IEEE Xplore Digital Library.
- Participated and Presented M.E Project in **“Six National Conferences and Two International Conferences”**.
- Attended several workshops, conferences, seminars and in-plant training conducted by various institutions such as Anna University, Bannari Amman Institute of Technology & SNS College of Engineering.
- Attended the technical training programs and soft skill training program.
- Handled **“Analysis of Inverters”** classes for M.E (PED) Part time students during Jul. 2012 to Nov. 2012.
- Held key leadership positions with responsibilities of being a contributing person in the departmental activities.

Academic Projects

M.E Project Work:

Three Phase DC-DC Converter for High Voltage & High Power Applications with Reduced Switch

B.E Project Work:

- PLC Based Multi-way Energy Saver
- Automatic Temperature Control of Water Cooler

Workshops Attended

- Two days Workshop on “Genetic Algorithm and Particle Swarm Optimization” in Anna University, Regional Office, Coimbatore.
- One day Workshop on “Fuzzy Logic and its Applications” in Sri Krishna College of Engineering and Technology, Coimbatore.
- One day Workshop on “8051 Microcontroller: A Practical Approach” in Anna University of Technology, Coimbatore.

Publication

- J.Jenibha joshi, **P.Karthick** and R.Sureshkumar, “A solar panel connected multilevel inverter with SVM using fuzzy logic controller”, 2013 IEEE International Conference on Energy Efficient Technologies for Sustainability (ICEETS), Nagercoil, India, April 10-12, 2013, pp. 1201 - 1206, (ISBN: 978-1-4673-6149-1).

Education

M.E

Anna University - Chennai

Anna University Regional Centre, Coimbatore

Power Electronics and Drives

Dept. of Electrical and Electronics Engineering

First Class, CGPA – 7.82 (June 2013)

B.E

Anna University - Coimbatore

CMS College of Engineering, Namakkal

Dept. of Electrical and Electronics Engineering

**First Class with Honours, CGPA – 8.64
(April 2011)**

DIPLOMA

DOTe - Tamilnadu

Arulmigu Kalasalingam Polytechnic College,

Krishnankoil

Dept. of Electrical and Electronics Engineering

First Class, Percentage – 73.08% (April 2008)

Personal profile

Name	: P. Karthick
Father's name	: P. Pitchai
Passport	: J9704649
Date of Birth	: 09 th July 1990
Nationality	: Indian
Languages known	: English & Tamil (Read/Write)

Projects handled so far

**** Projects Handled in Evolve India Solar Pvt. Ltd.**

- 30kW at YMCA,Purasaiwakkam, Chennai.
- 50 kW at Oragadam, Chennai.
- 500 kW project at M.A.F Clothing, Bangalore.
- 100 kW at Vilva Fruits and its Cold storage plant, Coimbatore.
- 5 kW x 2 No's at MeteximThirumazhisai, Teynampet.
- 10.5 kW at Kilpauk Umayal road, Chennai.
- 200 kW Solar PV car port project at LANSON TOYOTA, Pallikaranai, Chennai.
- 70 kW Roof-top Grid-tie Project at GT Cold storage, Red hills, Chennai.
- 1 MW Solar PV Plant at Chattrapatti, Tirunelveli District.
- Technical and commissioning support for 400 kW Metallic Roof-top Grid-tie Project at Sakthi Ferro Alloy – Sripermbuddur.
- Technical and commissioning support for 30 kW Ground Mounted Grid-tie Project at Police Quarters at Kandigai, chennai.
- 10 kW Metallic sheet Roof-top Grid-tie Project at Symetros, Adayar – Chennai.
- 8 kW Roof-top Grid-tie Project at Pallavakkam, Chennai.
- 5 kW Roof-top Grid-tie Project at Metexim Sourcing India PVT LTD, Teynampet – Chennai.
- 5 kW Roof-top Grid-tie Project at Metexim Sourcing India PVT LTD, Thirumazhisai – Chennai.
- 3 kW & 2KW Roof-top Grid-tie Project at Navaloor,Chennai.
- 2 kW Roof-top Grid-tie Project at Thiruvallur.
- Successfully installed Net-metering for the above mentioned projects
- Done 100 kW Roof-top Grid-tie Project site survey and load study at Mulberry Silks at Bangalore.
- Done site visits for more than 50 sites so far.

***Projects Handled in VATIO Energy India Pvt. Ltd.**

- Successfully installed & commissioned a **15 kW Solar Grid Tied System** at SISHYA School, Chennai.
- Successfully installed Solar PV Power System for **1000 houses** under the Government of Tamil Nadu scheme in Kancheepuram District.
- Successfully installed **10 Numbers of 1kW Grid Tied System**, under Tamilnadu Chief Minister's Capital Incentive Scheme Subsidy sponsored by the State government.
- Successfully installed **Dual Axis Solar Tracking System** at SRM University, Chennai.
- Successfully installed **20 Nos. of Solar Street Light** of Wipro Lighting - Chennai.
- Successfully installed a 1KW_p Solar PV Shadow Analysis Test Project System at Kalasalingam University – Srivilliputhur.
- Successfully installed **Solar Water Heating System** (500LPD) in Selvavani Marriage Hall
- Successfully installed Solar Water Heating System (100LPD) in Kilpauk, Chennai

