

**MAHESH KUMAR JAIN**  
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B.Tech (Electrical and Electronics)

## **Solar Plant Design Engineer(D&D) at Genus Innovation ltd**

### **SYNOPSIS**

- A result oriented Electrical designer with 2+ year experience in the progressive Solar plant design.
- Current responsibility is to check the site feasibility and design the plant to maximizing the efficiency to meet the expected outcome and execute the plant as per customer requirement..
- Possess **strong analytical, liaising skills**.

### **Educational Qualification**

S.NO.	DEGREE	UNIVERSITY/BOARD	INSTITUTE	YEAR OF PASSING	% OR CGPA
1.	B.Tech	Vellore institute of technology	VIT university	2015	8.72
2.	12 <sup>th</sup>	Rajasthan board of secondary education	Saint agustya school	2010	77.08
3.	10 <sup>th</sup>	Rajasthan board of secondary education	Jain school	2008	66

### **Work Expertise:**

#### **GENUS INNOVATION LIMITED, JAIPUR**

Since December 2015 to till date, associated with Genus Innovation limited as a Engineer for solar power projects, list of projects as below:

- **75 KWp** Grid Tie Roof Top Solar power project at various location Jaipur, Rajasthan (An open market Project, **Project Status: Completed**).
- **200 KWp** Grid Tie Roof Top Solar power project at Sirsa, Haryana (An open market project, **Project Status: Completed**).
- **350 KWp** Grid Tie Roof Top Solar power project at various locations at Shimla. (A HIMURJA Project, **Project Status: Completed**)
- **385 KWp** Grid Tie Roof Top Solar power project at various location Jaipur, Rajasthan (A RRECL Project, **Project Status: Completed**).
- **700 KWp** Grid Tie Roof Top Solar power project at various Hydro Power Projects at Kerala. (A Kerala State Electricity Board Limited Project, **Project Status: Completed**)
- **2.5 MWp** Grid Tied Solar Roof Top Project at various buildings of CPWD in Uttar Pradesh. (A project by SECI on RESCO Model, **Project Status: Completed**)
- **3.5 MWp** Grid Tied Solar Roof Top Project at various government buildings in Uttar Pradesh as well as Rajasthan (A project by SECI , **Project Status: Running**)

### **Key work profile**

- Expertise in fundamentals of Electrical Design & Load Estimation of solar Plants, Engineering Calculations, sizing of solar power plant, sizing of power cables, selection of technology & system based on customer requirement.
- PV Syst simulation, detailed shadow analysis of the site, design & costing of PV on grid (captive consumption).
- working with marketing team for submitting offers, Co-ordination with Purchase, Sales, Execution and Finance & Accounts teams.
- Maintaining project schedule by monitoring project progress, coordinating activities and resolving problems.
- Strong experience in installation and commissioning of solar pv power plant.
- Solid working knowledge of Design Codes & Standard, and other governing standards for design of solar PV systems.
- familiarity with DC circuitry, Experience with PV System Energy Modeling tools, specially like PVSyst, Autocad, P-Sketchup.
- Knowledge of power distribution systems.
- Review of technical specification of tender.
- Preparation of project specification as per tender requirement.
- Site visit & site survey, preparation of site feasibility reports, Preparation of BOM, Evaluation of BOM as per customer requirement.
- Design of electrical SLD & Plant layout & drawings,detailed Equipment specification.
- Preparation of BOM with full specification.
- SAP validation of BOM.

### **Vocational training**

1. Training on Image and video processing in MATLAB and Machine vision.
2. **June 2013: KOTA SUPER THERMAL POWER STATION(KSTPS)**
  - 2.1 Assigned to the switch gear section and learn relay installation and various operation like relay, boiler and transformer operation.
  - 2.2 Operated in supervision department and supervised under every disturbance.

### **PROFESSIONAL PROJECTS**

<b>Project</b>	<b>Multilevel Boost Inverter</b>
<b>Platform</b>	Arduino, P-Spice.
<b>Summary</b>	Multilevel inverter was designed using motor driver IC to convert DC voltage into AC. This project has been simulated in PSpice software. The respective hardware has been designed and Input pulse to the IC was given by Arduino. The controlling was done using Arduino Programming and to interface these, Opto-coupler was being used.
<b>Project</b>	<b>Real time Image processing and Robot control.</b>
<b>Platform</b>	Matlab, Arduino
<b>Summary</b>	This project can be use for security purpose. Matlab was used to detect the object by calculating number of pixels and Arduino was used to control the robot.

## **SOFT SKILLS**

**Operating System** : Windows.  
**Programming Language** : C  
**Application Software** : MS-OFFICE, GOOGLE EARTH  
**Operating System** : Window XP, Window Vista, Windows7  
**Solar Energy software** : Autocad, Sketchup, PV-syst, SOLIVIA-PV planner,PV-PILOT

## **AMCAT Score:**

English: 95.1%ile  
Logical: 81.4%ile  
Quants: 99.9%ile  
Computer Programming: 99.7%ile

## **EXTRA CURRICULUR ACTIVITIES**

- Technical Membership – Indian Society of Technical Education.
- Active participant of Event Managers Club.
- Seminar on Social Networking at DAV Senior Secondary School
- Sports – Badminton

## **PERSONAL SNIPPETS**

**Date of Birth** : 5<sup>th</sup> Sep, 1993.

**Father's Name** : Paras Chand Jain.

**Language Known** : Hindi, English.

**Permanent Address** : 25, Behind old police station,Jain colony,  
Newai (Rajasthan) -304021

## **DECLARATION**

I hereby declare that all above information is correct to the best of my knowledge.

Date: 16.02.2018

(M.K. JAIN)

Place: Jaipur