

## **CURRICULUM-VITAE**

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**SAUMAY SONGRIWAL,**  
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**Date of Birth:** 02-10-1990

### **Career Objective:**

To be associated with a progressive organization which can provide me with a dynamic environment, utilize my skills to complete the organization's objectives and also achieve career growth.

### **Educational Qualification:**

Course	Institution	Board /University	Year of Completion	Aggregate (%)
B.Tech ( <b>Electrical Engineering</b> )	Lingaya's Institute Of Management & Technology	MDU, ROHTAK	2012	68.15%
12 <sup>th</sup>	PrabhuDayal Public School, New Delhi	CBSE	2008	79.80%
10 <sup>th</sup>	PrabhuDayal Public School, New Delhi	CBSE	2006	85.16%

### **Professional Experience:**

**Total Work Experience:** 5 Year 01 Months (October 2012- present)

- Currently working in **Jakson Engineers Limited** as SENIOR TEAM MEMBER in Solar EPC Department.  
(Feb 2016- present)

**Job Profile:** Electrical Design

### **Responsibilities :**

- Dynamic and result oriented **Electrical Engineering** around 5 Years experience across Electrical Design Engineering.
- Project Design of Rooftop Grid Tied Solar Power Plant) as per Tender specifications and Client Requirements Government and Private Sector.
- Design of Master Plant Layout, Equipments Layout & Design of Inverter Room Equipments Arrangement Drawing.
- Site Survey layout, structure layout and electrical circuit layout preparation using Auto CAD.

- Basic Arrangement of Array MMS Tables & PV Modules in Plot Plan Layout.
- Design of AC & DC Cable Routing & Sectional Details as per IS standards.
- Preparation of Drawing According to **IS Standard & Indian Electricity Rules**.
- Planning & Execution, Set up of Control room with Monitoring tools, Inverter and all electrical equipments.
- Selection and finalization for data monitoring and acquisition system. Installation and pre commissioning procedures for Inverters and Data Acquisition system at Project sites.
- Responsible for Design detailing, Array and Strings calculation and configuration, Preparation of
- Preparation of BOM, Costing & Schematic/SLD/Layout for Pre sales and Post orders detailed engineering.
- Shadow analysis as well as 3D modeling for the plants using Google Sketchup software.
- Preparation of Costing for Govt and private tenders by meeting the technical requirements of the tender.

### **CURRENT PROJECTS ASSIGNMENTS ROOFTOP**

- **Project: 1000 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** NC College Main Campus, Panipat, Haryana

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 1000 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** PDM University Campus, Bahadurgarh, Haryana

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 450 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Rajshree Medical Institute, Bareilly, U.P

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 125 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** GL Bajaj Group of Institutions, Mathura, U.P

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 200 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** KD Dental College, Mathura, U.P

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 450 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** KD Medical College, Mathura, U.P

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 250 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** IP Dental College, Ghaziabad

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 600 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Hind Institute of Medical & Science, Lucknow

**Location:** Lucknow, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 1500 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** LNCT Group

**Location:** Bhopal, Indore, Jabalpur, Bilaspur

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 1000 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Starex University

**Location:** Gurgaon, Haryana

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 300 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** ABES Engineering College

**Location:** Ghaziabad, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 400 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Hindustan Engineering College

**Location:** Mathura, Uttar Pradesh

**Status:** On Going, Design & Engineering in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 449 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Pawar Public School

**Location:** Pune and Mumbai, Maharashtra

**Status:** On Going, Design & Engineering Approved and Execution in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 625 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Tata Cummins Limited (TCL)

**Location:** Pune, Maharashtra

**Status:** On Going, Design & Engineering Approved, Execution in progress.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

## **ROOFTOP PROJECTS ACCOMPLISHED**

- **Project: 905 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Chandigarh Renewal Energy and Science & Technology (CREST)

**Location:** Chandigarh.

**Status:** Commissioned in Aug 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project

- **Project: 120 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Mangalmay Institute of Engineering & Technology

**Location:** Greater Noida- U.P.

**Status:** Commissioned in July 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 1000 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Maharishi Dayanand University (MDU)

**Location:** Rohtak, Haryana

**Status:** Commissioned in March 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 200 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Indian Aviation Academy

**Location:** Delhi

**Status:** Commissioned in May 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 100 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Ram Manohar Lohia Hospital (RML)

**Location:** Delhi

**Status:** Commissioned in May 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 160 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Nehru Memorial Museum & Library (NMML)

**Location:** Delhi

**Status:** Commissioned in May 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- **Project: 200 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Electronics Niketan

**Location:** Delhi

**Status:** Commissioned in February 2017.

**Assignments** Design of Array, Module Layout, Earthing Layout, Lighting Protection, Shadow Analysis, Module Cleaning Layout, String sizing and Cable sizing calculations, Design of LT Panel & Metering Panel, Costing of the project.

- b) Previously worked in **Advance Metering Technology Limited** as SENIOR ENGINEER (Oct 2012- January 2016)

**Job Profile:** Electrical Design.

**Responsibilities:**

1. Responsible for identifying requirements to meet the project delivery schedules.
2. Time to time procurement of materials and machinery for the projects.
3. Handle responsibilities of providing technical guidance to the staff in Solar system installation and commissioning.
4. Handle the tasks of preparing proposal, BOQs and detailed projects reports for solar power energy projects along with financial analysis of the projects.
5. Conduct site visits/inspection and pre-sale design activities to meet the customer's requirements.
6. Responsible for preparing 3D modeling and designing for Solar projects using Google Sketchup Software.
7. Handles the task of doing calculations related to solar power energy projects and collection of all the data related to the project.

### **SOLAR PROJECTS UNDERTAKEN:**

**1. Project: 5.90 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Advance Metering Technology Limited Building Rooftop

**Location:** Noida

**Status:** Commissioned in March 2013.

**2. Project: 6.10 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Brown & White Building Rooftop(B&W)

**Location:** Gurgaon

**Status:** Commissioned in September 2013.

**3. Project: 6.1 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Ranade House Rooftop

**Location:** Delhi

**Status:** Commissioned in February 2014.

**4. Project: 48.8 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Hero Cycles Limited

**Location:** Ludhiana

**Status:** Commissioned in September 2014.

**5. Project: 100 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Advance Metering Technology Limited Plant

**Location:** Noida

**Status:** Commissioned in April 2015.

**6. Project: 10 KW Rooftop Solar Power Plant**

**Type :** Solar Farm with Poly C-Si SPV Module Technology

**Client :** Gupta Farm House

**Location:** Jalandhar, Punjab

**Status:** Commissioned in February 2015.

### **Computer Skills and language known:**

- 1 Basic knowledge of Computer (eg. MS-office)
- 2 Good knowledge of Ms Excel.
- 3 Google Sketchup for Solar Designing.
- 4 Elementary knowledge of PVsyst.
- 5 AutoCad

**Project Undertaken:****Embedded Car Dashboard (Final Year Project)****Description:**

A dashboard is a control panel placed in front of the driver of an automobile, housing instrumentation and controls for operation of the vehicle. It is a prototype model with following features:

- Anti Collision System
- Parking assist
- Movable headlights with steering control

**Internships/Training:**

COMPANY NAME	AREA OF TRAINING	TRAINING PERIOD
ENGINEERS INDIA LIMITED	To study different types of cables.	6 weeks
GAS AUTHORITY OF INDIA LIMITED	Energy Conservation in HVAC System using Variable Frequency Devices	6 weeks

**Achievements:**

- Secured 1<sup>st</sup> Position in **HANDBALL** at Zonal level in 8<sup>th</sup> standard.
- Secured 1<sup>st</sup> Position in **FOOTBALL** at Zonal level in 10<sup>th</sup> standard.
- Secured 2nd Position in **FOOTBALL** at Inter Zonal level in 8th standard.

**Co-curricular Activities:**

- Involved in Organizing **NATIONAL CONFERENCE ON "EMERGING TRENDS IN POWER SYSTEMS AND ENERGY MANAGEMENT"**.
- Participated in **SWARN ROBOTICS** conducted by **TECHNOPHILIA-2010**.
- Participated in **ZEST, INTER COLLEGE CULTURAL FESTIVAL-2012**.
- **Hobbies:** Reading, Cricket, Football, Listening Music.