

## ANSHUL SHRIVASTAVA

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### Career Objective

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To have a growth oriented and challenging career, where I can contribute my knowledge and skills to the organization and enhance my experience through continuous learning and teamwork.

### Key Skills

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Solar power plant design (On grid, off grid)

- Solar power plant design (Roof top and ground mounted)
- Designing Knowledge of Battery bank sizing and Based System.
- Designing Knowledge of Grid Tied System.
- Selection of (PV modules ,cables ,cables tray, array junction box, inverter, circuit breaker, battery bank, ACDB)
- Solar Inverted sizing and Working Process.
- Knowledge in Auto Cad , PV Syst, PV Sol, Google Earth and Google Sketchup.
- Knowledge of ( LT/HT Panel)
- Knowledge of Tendering.
- Working knowledge of Procurement (Costing).
- Knowledge in SAP.
- Costing, freight forwarding, and custom clearance.

### Organizational Experience

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Since August 2018 till Present:

**Sun Source Energy Pvt. Ltd., Noida**

**As a Senior Design Engineer**

- Site Survey/Analysis and report Generation.
- Preparation of site layout (**International Business**).
- Shading analysis of the complete site for capacity estimation.
- Calculation of cable sizing, string sizing, inverter capabilities, voltage drop of DC and AC part.
- Single line diagram for both DC and AC.
- Preparation of Preliminary and Detail Bill of Material (+200 MW). Preparation of detail drawing set.
- Complete Design of Rooftop/Ground mount/Canopy Distributed Generation PV Systems.
- Create accurate energy model of entire plant. Calculation of expected solar energy production.
- Monitor and update construction drawing sets.
- Helping higher management in daily tasks.

Since March 2018 to August 2018:

**Corps Renewable Energy Company, Noida**

**As a Design & Project Engineer**

- Site Survey/Analysis and report Generation.
- BOM, SLD, energy generation, site picture, shadow analysis, PVsyst / PVSol data.
- Preparation of Technical Proposals showing Schematics.
- Sizing of various equipment's like Inverters, PV Panels ACDB, DCDB, LA, Cables, Earthing, battery Sizing.
- Bill of materials, budgets, Scope of work standards and quotes from suppliers.
- Understanding Switchyard equipment and designing of Switchyard layout.
- Participated in Tender (more than 650 MW). Prepare cost estimation, Scope Matrix and technical documentation.

Since February 2017 to November 2017:

**Ubitech PVT. LTD.**

**As an Assistant Manager Procurement  
division.**

Responsibilities at Ubitech (P) Ltd.:-

- Vendor Development and Technical work.

- ✓ Approval from client (Govt. bodies) for new vendor approval and raise inspection call for material inspection.
- ✓ Inspect material along with Client at vendor's work.
- ✓ Custom Clearance.
- ✓ Freight Forwarding.
- ✓ Material Inspection

Since December 2015 to January 2017:

**Ujaas Energy Ltd**  
(A Solar Power Company)  
As an Assistant Manager Procurement  
division.

Responsibilities at Ujaas Energy Ltd.:-

Procurement/ Material(s) Management: Planning, organizing and controlling all requisite activities such as sourcing, techno – commercial evaluation, negotiation, ordering, inspection, expediting & tracking, reporting, logistics and delivery, payment processing, etc. Ensuring the compliance by monitoring processes; identifying defects & modifying final scale up. Procuring processed & bought out components which are used for the assembly of solar modules installation and commissioning.

- ✓ Vendor Development: Participation in New product development:
- ✓ Design modification of String Monitoring Box.
- ✓ Y-Connector Usage and Rating.
- ✓ Cost reduction/Increasing Efficiency.
- ✓ Assessing vendor performance basis criteria such as percentage for rejections, quality improvement rate, timely delivery, credit terms, etc.
- ✓ Quality Control: Quality checks (in-coming inspection, in-process inspection, finished product inspection), regular audits are being done.

### **Professional Qualification**

1. Session- 2014 to 2016  
**Master of Technology** in Power distribution with specialization in Smart Grid from **UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN (UK)** with the result of 80% First Grade.
2. Session- 2010 to 2014  
**Bachelor of Engineering** in Electrical and Electronics from **MAHAKAL INSTITUTE OF TECHNOLOGY, UJJAIN (M.P.)** with the result of 69% First Grade.

### **Academic Qualification**

1. Session- 2009-2010  
Senior Secondary (PCM) from LTHSS, Ujjain (MP) State Board with 66% First Grade
2. Session- 2007-2008  
High School from LTHSS, Ujjain (MP) state Board with 70% First Grade.

### **Professional Enhancement Course**

**Advance Electrical Design and Engineering Institute (ISO 9001: 2008), New Delhi**  
**“SOLAR POWER PLANT DESIGNING”**

**Dec 2017- Feb 2018**

1. Solar Power plant design (Grid Connected, Net Metering, off Grid, Grid Interactive, Roof Top or Ground Mounted)
2. Knowledge of various software required in solar power plant designing (AutoCAD, PVSyst and Google Sketch up).
3. Studied PV modules (technology: crystalline/ thin film, BOM, Cell configuration, mechanical design, efficiency Calculations, LID, V-I curves, PV modules series-parallel connections, formulating strings)
4. Selection and sizing of inverters (central inverter, String inverter, MPPT charge controller, array power matching, inverter room sizing, SCB and ACDB sizing)
5. Cable selection, sizing power loss and voltage drop calculations on both kW and MW scale (dc solar cable, AC Power cable, HT cable, Cable trench)
6. Earthing sizing and calculations
7. Studied various system losses of solar power plant ensuring better and efficient performance.

## **Professional Training**

### **1. Reliance Thermal Power Plant, Dahanu, Mumbai (MH)**

Attended industrial training for 3 Months, learn about Grid Operations with ABT mechanism, DSM programs, day ahead scheduling, Maintenance of Switch yard and assets, Testing of Relay, Installation of SDH card with OPGW Cable Communication over overhead line.

### **2. Prolific Systems Technologies Pvt. Ltd., Pune (MH)**

Training on Programming in PLC, SCADA, HMI, and DCS as Certified PLC Programmer.

## **Technical Skillset**

1. Autocad, PVSyst, PVSol, Google Sketchup, Google Earth.
2. SAP, ERP, Etap, Simeatic Manager, Dilux, Calculux and RS Logix
3. Basics of PLC, SCADA and DMS
4. Proficiency in MS Office (Word/Excel)

## **Academic Projects**

### **1. Project: Cyber Security in Automated Billing System of Smart Meters**

**Description:** Today everything is automated in the field of power system or power Grid. To ensure the security in Smart meter communication or billing system, I make it possible to secure and ensure to protect from hackers and Remove vulnerability.

Result: We suggest a new methodology to secure communication over comm. Protocol.

### **2. Project: De-centralized Distributive Generation at Bidholi, Dehradun**

**Description:** In this project we did calculation of Load analysis in village Bidholi. Average Power consumption Of Residential/ Hostel entities.

## **Research Paper Publication**

1. **“Cyber Security: Issues and Privacy”** Communications on Applied Electronics (CAE) Foundation of Computer Science FCS, New York, USA Volume 3– No.4, November 2015 – [www.caeaccess.org](http://www.caeaccess.org)
2. **“Comparison of Different Load Flow Techniques & Implementation using Newton Raphson Method”**, 7<sup>th</sup> International Conference on Emerging Technologies in “Civil Engineering, Architecture and Environmental Engineering for Global Sustainability” (CEAEGS- 2015) Organized by “KrishiSanskriti”, 5<sup>th</sup> April 2014.
3. **“Net Zero Energy Building”**, 7th International Conference On Emerging Technologies in “Civil Engineering, Architecture and Environmental Engineering for Global Sustainability” (CEAEGS- 2015) Organized by “KrishiSanskriti”, 5<sup>th</sup> April 2014.

## **Interpersonal Skills**

1. Good Communication and Presentable Skill.
2. Engineering Skill (able to understand the concept, design, application and troubleshooting).
3. Project Management (successfully completed projects during academic curriculum with the team size of 5 members).
4. My interest lies in travelling and cooking.

## **Extracurricular activities**

1. Member of ISGF (Ministry of Power), India.
2. Attended ISGF boot Camp held in IIT-Delhi.
3. Attended Optical Fiber Communication Workshop in UPES, Dehradun.
4. Worked as Coordinator in National level techfest “TechnoKumbh – 11” (Organized by College, Ujjain)
5. Actively Working with NGO as a Socialist in Ujjain

## **Personal Detail**

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Date of Birth : 27/08/1991  
Father's Name : Mr. Rajesh Kumar Shrivastava  
Mother's Name : Mrs. Kshama Shrivastava  
Nationality : INDIAN  
Languages : Hindi & English  
Passport No. : **K7853995** (valid till Date 01-06-2024)  
Home Town : UJJAIN  
Permanent Address : 57, Vidhya Nagar, Indore Road, Ujjain (M.P.) 456010

**Declaration:** I hereby declare that the above mentioned details are correct and true to my knowledge.

**ANSHUL SHRIVASTAVA**