

Name : **SHIVI ARORA**  
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## **CAREER OBJECTIVE**

Seeking a position as Design Engineer with commercially successful and expanding Energy Consulting and Infrastructure Company.

### **HIGHLIGHTS**

-Good knowledge of Power and energy related concepts.

-Good understanding of designing and working of Solar power plants.

-Good understanding of Solar Energy Market.

-Good inter personal skills and ability to work under pressure.

-Ability to build team environment.

-Published paper in IEEE.

### **PROFILE**

- Working as a Design Manager with good understanding of Electrical drawings/ SLD/ BOM/ Switchgear/ Protection Equipment / Electrical Equipment
- Ability to function as a team player and alternatively work independently to achieve objectives.
- Excellent problem solving and troubleshooting skills.
- Ability to manage multiple tasks and meet deadlines.
- Fluent in English and Hindi.
- Qualified **GATE four times**.

### **EXPERTISE SUMMARY**

- Good understanding of Elements of Solar Power Projects.
- Well Versed with IS 3043 and IS 2309.
- Working experience on software like MS Excel, PVSyst, Autocad, MATLAB/SIMULINK, ETAP.

### **EDUCATIONAL QUALIFICATION**

Examination	Specialization	University	Year of passing
M.E.	Power and Energy Systems	Goa Engineering College	2016
B. Tech	Electrical Engineering	Uttarakhand Technical University	2012
Intermediate	Science + Maths	CBSE	2008
High School	Science side	CBSE	2006

## **INDUSTRIAL EXPOSURE**

Organization : **Sunkalp Energy, Saket Delhi**  
Designation : Design Manager  
Period : Apr 2017 to Present

### **Key Activities:-**

Designing of Solar Power Plant which included Module Layout, Structure Drawing, Structure Part Drawing, String Layout, Cable Sizing, BOM, Cable Tray Layout, Cable Tray Drop, LT Panel Design, Earthing System, LA Plans, SLD, Shadow Analysis, PVSyst Report, Costing and Estimations.

### **Projects Executed:-**

- 491 KW Rooftop SPP at Breach Oralcare PVT. LTD, Vadodara
- 150 KW Rooftop SPP at National Brain Research Centre, Manesar
- 135 KW Rooftop SPP at Swiss Cottage School, Palam Vihar
- 1.6 MW Rooftop SPP for Apeejay Education Society
- Multiple 50KW Project for Omega Bright Steel Factory, RBI Chandigarh, St. Marry School, SD Adarsh Vidyalaya etc.
- Multiple Residential Projects in Delhi.

Organization : **Radite Energy, Gurugram**  
Designation : Assistant Manager  
Period : Oct 2016 to Apr 2017

### **Key Activities:-**

Designing of Mega Watt scale Solar Power Plant for industrial clients which includes Module Layout, Structure Selection, Cable Sizing, BOM, Cable Tray Layout, Cable Tray Drop, LT Panel Design, Earthing System, LA Plans, SLD, Far Shadow and Near Shadow Analysis.

- Vendor Selection, Project Management and Execution.
- Prepared, created & maintain project tracking tools by identifying elements of project and reports for senior management.
- Prepare comparison of current & previous estimates and actualized project costs, while developing & maintaining intelligence regarding trends in cost of services & materials.

### **Projects Executed:-**

- 1.3 MW Rooftop SPP at GAMESA, HALOL
- 100 KW Street Light Project at BASUKINATH, JHARKHAND
- 1.2 MW Tracker based Ground Mounted SPP at NEWAI, NBC, NEI
- 400 KW Rooftop SPP at TE CONNECTIVITY, SHIRWAL

Organization : **Sunmeyer Solar Solution, Ghaziabad**  
Designation : Design Engineer  
Period : Apr 2016 to Sep 2016

**Key Activities:-**

- Kilo Watt scale system designing along with Installation & Commissioning of projects.

Organization : **Triumph Solar**  
Designation : Site Engineer  
Period : Jun 2012 to Jun 2014

**Key Activities:-**

- Installation of Solar Power Plant and Solar Water Pumps.

**ACADEMIC PROJECTS**

- Power and Energy Management System for Dual Source Electric Vehicle where I achieved to develop hybrid energy storage system, optimally combining lithium ion battery and electric double layer capacitor, which provided better drivability and drive range.\*
- Smart Energy Meter\*

**TRAINING**

**Central Electronics Limited (Jan 2016–Jul 2016)**

- Selected in the group of 25 students from all over India for 6 months skill based training on “System Sizing, Installation, and Commissioning and Maintenance of Solar Photovoltaic System”
- Sponsored by Ministry of New and Renewable Energy (**MNRE**), Govt. of India.
- Designed and installed Solar PV system which helped me to get familiarized with solar related product line of SMA, Morningstar Corporation, MidNite Solar, Delta, Su-Kam etc.

**BHEL, Haridwar (Jun 2011-Jul 2011)**

- Carried out study on “Insulation & Manufacturing Process of 500MW Turbo Generator Bars” as a part of academic requirement for bachelor’s degree

**THDC, Rishikesh(Jun 2010-Jul 2010)**

- Carried out study of “Electro-Mechanical System in Tehri Hydro Power Plant”.

**CONFERENCE / WORKSHOP**

- **Presented paper** titled “Simulation and Analysis of Hybrid Energy Source for Electric Vehicle” in **IEEE International Conference** on Power Electronics, Intelligent Control and Energy Systems, Delhi Technical University, Delhi, July 2016\*
- **Presented paper** titled “Simulation of Electric Vehicle and Comparison of Electric Power Demand with Different Drive Cycle” at 4th International Conference on Science, Technology and Management, India International Centre, New Delhi (May 2016)\*

- **Attended workshop** on “Advances in Power System Operation and Control Using Synchrophasors (PMUs)” conducted by Central Power Research Institute, Ministry of Power (Government of India) at Bengaluru (January 2016)
- **Participated** in Technical Education Quality Improvement Program (TEQIP-II) and IEEE Power and Energy Society® sponsored International Symposium on “Advances in Power Distribution Engineering: Distributed Generation, Micro-Grid and Renewable Integration” held at The National Institute of Engineering, Mysuru, India (August, 2015)

#### **PUBLICATION**

- Published paper titled “Simulation and Analysis of Hybrid Energy Source for Electric Vehicle” in IEEE International Conference on Power Electronics, Intelligent Control and Energy Systems, Delhi Technical University, Delhi, July 2016.\*\*
- Published paper titled “Simulation of Electric Vehicle and Comparison of Electric Power Demand with Different Drive Cycle” in IJATES(ISSN 2348-7550) Volume 04, Issue 05, May 2016.\*\*

#### **PERSONAL SUMMARY**

Name : Shivi Arora  
 Father's Name : Mr. Anil Arora  
 Sex : Male  
 Date of Birth : 23/07/1989  
 Marital Status : Single  
 Nationality : Indian  
 Hobbies : Photography, Landscape Designing and Cooking  
 Permanent Address : 33 Akashdeep Colony, Ballapur Road, Dehradun-248001, Uttarakhand  
 Phone No : +91-9599743475

#### **DECLARATION:**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned particulars.

**Place:** Dehradun

**(SHIVI ARORA)**

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\* Report/ Paper available through link <https://drive.google.com/folderview?id=0B5OJY2TYXT1OVEJ0X0ZOXzNuUWs&usp=sharing>

\*\* Paper available through above mentioned link and publication's website.