Ankur Shrivastava

Pt. Ravishankar Shukla University, Raipur
Optoelectronics and Laser Technology

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Current Work Interests

Solar and Energy Design, Photovoltaic System Optimization, Installation/Commissioning and Maintenance, Design and Characterization of Dye Sensitized Solar Cell.

Current Appointment

Guest Lecturer at Institute of Renewable Energy Technology and Management *2021–present*
Pt. Ravishankar Shukla University, Raipur, Chattishgarh, India

Previous Appointments

Engineer and Trainer *2016–2022*
S R Corporate Consultant Private Limited, Raipur, India

Sub-Station Engineer *7 months*
SKS Power Generation, Raigarh, Chhattisgarh, India

Research Assistant at Electronics and Photonics Department *2013–2014*
Pt. Ravishankar Shukla University, Raipur, Chattishgarh, India

Intern *4 weeks*
Doordarshan Kendra, Raipur, India

Intern *2 weeks*
Bharat Sanchar Nigam Limited, Raipur, India
GSM and CDMA system for mobile communication, switching mechanism of CDOT, and broadband system.

Education

Master of Technology in Optoelectronics and Laser Technology *2015*
advised by Prof. Sanjay Tiwari, Pt. Ravishankar Shukla University, Raipur, Chattishgarh, India
Thesis: Design, fabrication and characterization of dye-sensitised solar cell.

Bachelor of Engineering in Electronics and Telecommunication Engineering *2010*
Chhattisgarh Swami Vivekanand Technical University, Bhilai, India
Thesis: Design and simulation analysis of RFID based-proximity security system.

Awards and Honors

1. Key Employee Award at SR Corporate Consultant Ltd., Raipur (*2019*)
2. Appreciation Award at Bosch India Ltd., Bangalore (*2021*)
3. Successfully cleared the Graduate Aptitude Test in Engr (top 8.33%) conducted by M.H.R.D. Govt. of India (*2009*)
4. National Cadet Core (NCC) A-certificate holder (*2001*)

Work Experience

at **S R Corporate Consultant Private Limited, Raipur, India** *2016–2022*

Project(s):

1. Performed quality inspection work for ground mounted megawatt (MW) scale on-grid solar power plant.
2. Performed site feasibility and site survey work for designing of solar power plant.
3. Successfully executed the installation of on-grid solar roof-top plant.
4. Performed the site survey of on-grid solar power plant project of **The Energy and Resources Institute (TERI)** for gariaband district in chhattisgarh.
5. Worked as quality inspector for the off-grid solar power plant installed under **Dindyal Upadhyay Gram Jyoti Yojna** in inaccessible village location of chhattisgarh state.
6. Trained the assistant and junior engineers of Chhattisgarh State Power Distribution Company Limited under **The World Bank–SBI Grid Connected Rooftop Solar PV TA Program**.

7. Tutored the entrepreneurs under **The World Bank–SBI Grid Connected Rooftop Solar PV TA Program**.
8. Instructed and trained the business persons and candidates under solar entrepreneur training program essential for registering as system integrator in **Chhattisgarh State Renewable Energy Development Agency (CREDA)**.
9. Trained the diploma and ITI candidates under **Suryamitra Training Program**.
10. Examiner and trainer for B.Voc. educational program in renewable energy technology run by **Tata Institute of Social Science, Mumbai (TISS)**.
11. Certified Trainer for BRIDGE training program run by **BOSCH India Limited, Bangalore**.

at **SKS Power Generation Chhattisgarh Limited Raipur, India** *7 months*

Project(s):

1. Performed the protection and control design on 33/11 KV sub-station project.
2. Create and modify technical specifications for major equipment, such power transformers, power circuit breakers, control house, and other high-voltage substation related materials.
3. Coordinate with and provide technical assistance to engineers and substation technicians in order to fully develop system integration of protection, control, and monitoring systems.

Publication

1. **Ankur Shrivastava**, and Sanjay Tiwari. Dye-sensitized solar cell. *National Conference on Recent Trends in Photonics (NCRTP)*, Raipur, Mar. 2014.

Workshop and Short Term Course

1. Participated in short term course on *Recent Trends in Material Science* at National Institute of Technology, Raipur, 2013.
2. Participated in *Annual Photonics Workshop* at International School of Photonics, Cochin University of Science and Technology, Cochin, 2013.

Research Project and M.Tech Dissertation

Title: Design, Fabrication and Characterization of Dye-Sensitised Solar Cell

Description: The thesis reports the three dimensional nano-structure design of dye-sensitized solar cells that could overcome the high recombination loss problem by providing shorter pathways for photo-generated electrons to reach the contact. The design and development of dye-sensitized solar cells is currently often realized on an empirical basis. In view of assisting the optimization process, we fabricated a model of the dye-sensitized solar cell and experimentally validated based on a ray tracing algorithm, which allows as accurate determination of the efficiency and fill-factor of solar devices.
Place: Bhabha Atomic Research Center (BARC) Mumbai.

B.Tech. Dissertation

Title: Design and Simulation Analysis of RFID based-Proximity Security System.

Description: The thesis reports the simulation studies of an RFID-based proximity security system for identification cards, which have been embedded with RFID tags.

Skills

Software Skills: C, C++, 8085 micro-controller programming and OS - Windows 10 and Linux.

Deposition techniques: Chemical Vapor Deposition (CVD).

Materials characterization tools: UV/Vis Spectrophotometer, Photoluminescence Spectroscopy (PL).

Cleanroom fabrication: Photolithography, Dielectric/Metal Reactive Ion Etching (RIE), Surface Profiler, Wet Bench, Mask Aligner, Ellipsometer.

Other skills: Spray Coating, Dip Coating, Spin Coating, Sputter Coating.

Extra-curricular Activities and Languages

1. 3^{rd} rank in playing flute at regional school level cultural meet.
2. 2^{nd} rank in playing flute at cluster school level cultural meet.
3. Participation certificate in national level and cluster level science talent competition.
4. Regional level hockey player.

Languages: English (Native), Hindi (Native), Chhattisgarhi (Native).

References

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