GAJENDRA SINGH RATHORE

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CAREER OBJECTIVE

To be a part of a global organization that utilizes my skills and expertise in its process of growth and challenges while giving me ample opportunities to enrich my competencies.

NATIONAL EXAMINATION QUALIFIED

Examination (Agency)	**National Eligibility Test (UGC)**
Qualifying Month & Year	December – 2012, December – 2013, June – 2014, December - 2015
Subject	Electronic Science

SPONSORED PROJECTS UNDERTAKEN

Title of the Project	Name of the Funding Agency	Duration	Role	Remarks
Synthesis and characterization of rare earth doped MY_2O_4 (M= Sr, Ba, and Ca) Phosphors	Chhattisgarh Council Of Science & Technology (CGCOST)	2 Years	Co-Investigator	Submitted

ACADEMIC EXPERIENCE

Organisation	**Pt. Ravishankar Shukla University, Raipur**
Period	From January '16 to April '20 & November '20 to Till Date
Designation	Assistant Professor (Contract)
Responsibility	▪ **TEACHING & LAB ASSIGNMENTS:** Subjects related to Solar PV Technologies, Rooftop PV Systems, Energy Audit & Management and Electrical Utilities etc. Projects & Renewable Energy based Lab sessions. ▪ Assistance to complete establishment of Bachelor of Vocation programme in Renewable Energy Technology & Management, approved by UGC under the National Skill Qualification Framework (NSQF), to promote interdisciplinary activities for development of skills. An initiative by Govt. of India.

	▪ Establishment of Renewable Energy Lab: Identification, Specification Study, Report submission for procurement of lab equipment. ▪ Complete Coordination including Salary Preparation, Report Preparation, Schedule Visits and Procurement of books related to course. ▪ Complete data handling which includes: Admission, Scholarship, Attendance, Mentoring, Exam, Disciplinary, Website, Audit.

Organisation	**MATS University, Raipur**
Period	From August '12 to December '15
Designation	Assistant Professor
Responsibility	▪ M.Tech (Power Electronics) Course Co-Coordinator under Department of Electronics & Communication, School of Engineering & IT. ▪ Drafted syllabus of M.Tech (Power Electronics) & B.Tech (Electronics & Communication). ▪ Coordinator for Two Days National Conference on "Innovations in Material Science & Technology" (NCIMST - 2015) on 24th – 25th April, 2015 at School of Engineering & IT. ▪ Conducted & Coordinated an Expert Lecture of Dr. K. Shankar, Visiting Scientist, CERN, Geneva, Switzerland & Ex-Fulbright Program Coordinator, USIEF, Mumbai on 18th March 2015. ▪ Overall In-Charge (Acting Head) of Department of Electronics & Communication, School of Engineering & IT since January 2013. ▪ Member of Board of Studies for Department of Electronics & Communication, School of Engineering & IT. ▪ IQAC Coordinator from Department of Electronics & Communication, School of Engineering & IT. ▪ Member of Examination Committee for Conducting Term End Exam (May-June 2013) in University. ▪ Member of Internal Audit Board of School of Engineering & IT.

INDUSTRY EXPERIENCE

Organisation	**Ortel Communications Ltd., Raipur**
Period	From December '09 to July '10
Designation	Executive Engineer
Role & Responsibility	a) Node Monitoring using reverse receiver and to rectify corresponding problems with the co-ordination of fiber team (e.g. OFC Breakdown etc.) b) Transmission of Analog, Digital and Data signals using Hybrid fiber co-ax technique. Monitoring of all channels and Updation of their Electronic Program Guide. c) Planning about new projects to be established. Network design and mapping of corresponding area. Meeting with LCO's for network expansion in Raipur Area. d) Taking care of consumption record & reporting to higher officials.

	Achievements: ▪ Achieved a record figure of 599 (173 Analog & 426 Digital) connections in one month with team size of only 4 persons, at a maximum delay of 2 days per customer with quality assurance of signal transmission at customer premise end. ▪ Handled the project (Network design, connections and maintenance) of highly sensitive areas of Chhattisgarh state like Police Headquarter, CM House, Legislative Assembly etc.
Organisation	**Web Edge Solutions, Raipur**
Period	From July '08 to November '09
Designation	Project Engineer
Role & Responsibility	a) Planning & Execution of new projects. b) Developed Internal Network Infrastructure. c) Worked on the project based on Java & get hands on for web development tools like Drupal, Dreamviewer etc.

M.TECH PROJECT

Organisation	**Raja Ramanna Centre for Advanced Technology, Indore (Department of Atomic Energy)**
Title of Project	Design and Development of Target Maneuvering System for Laser Welding Rig and Development of LabVIEW Based PC Interface.
Period	From – July 2011 to July 2012
Units Operated	▪ Electronic Control System (Motion Controller) for Laser Welding Operation. ▪ 10 KW High Power Lamp Pumped Pulsed Nd:YAG Laser System. ▪ Vacuum System for Performing Experiments in Inert Atmosphere.

ACADEMICS

DEGREE/COURSE	INSTITUTE	UNIVERSITY/BOARD	YEAR	PERCENTAGE/ C.P.I.
Ph.D. (Electronics)	S.O.S. in Electronics & Photonics	Pt. Ravi Shankar Shukla University, Raipur	2018	Pursuing
Post Graduate Diploma (Energy Management)	Maharashtra Institute of Technology	MIT World Peace University	2019	77%

Advanced Diploma (NSQF-6)	Rooftop Solar Photovoltaic Entrepreneur	National Skill Development Corporation	2018	Qualified
M.Tech. (Optoelectronics & Laser Technology)	S.O.S. in Electronics & Photonics	Pt. Ravi Shankar Shukla University, Raipur	2012	73.7 %
B.E. (Electronics & Telecommunication)	Raipur Institute of Technology Raipur (C.G.)	Pt. Ravi Shankar Shukla University, Raipur	2008	70.5 % / 7.10
H.S.S.C. 12th	Holy Cross Hr. Sec. School Byron Bazaar Raipur (C.G.)	Chhattisgarh Board of Secondary Education	2004	68.6 %
S.S.C. 10th	Holy Cross Hr. Sec. School Byron Bazaar Raipur (C.G.)	Chhattisgarh Board of Secondary Education	2002	74.8 %

CO-CURRICULAR ACTIVITIES

Certification	• **Certified Trainer** for Gandhi Global Solar Yatra: Student Solar Ambassador 2019 organized by Indian Institute of Technology (IIT) Bombay. • **Training of Trainers (TOT)** for Solar PV Installer (Suryamitra, Civil, Electrical) organized by Skill council for Green Jobs (SCGJ), Govt. of India at New Delhi.
Orientation Course	• Attended **Two Weeks** DST, NSTEDB, EDII funded Faculty Development Programme on Entrepreneurship organized by Chhattisgarh Industrial and Technical Consultancy Centre, Raipur from 20th January -01st February 2020. • Attended **One Day Faculty Seminar** on *"Emerging Solar PV Technology Applications for Academics"* conducted at PVG's College of Engineering & Technology, Pune on 24th of February 2016. • Attended **Two Weeks** ISTE Short Term Training Programme on *"Engineering Physics"* under NMEICT (MHRD) conducted by IIT, Bombay from 08th to 18th December 2015. • Attended **Two Days** Short Course on *"Ultrafast Laser Pulses - Generation, Amplification & Characterization"* organized by INDIAN LASER ASSOCIATION at RRCAT, Indore on 29th & 30th November 2010.
Conferences	• Presented paper in **Two Days** International Conference on *"Innovation & Challenges in Nano science & Nano technology: Past, Present & Future"* at Sanjay Rungta Group of Institutions, Bhilai on 15th -16th December 2022. • Presented papers in TEQIP funded **Two Days** International Conference on *"Recent Trends in Renewable Energy & Sustainable Development"* at Bhilai Institute of Technology, Raipur on 30th & 31st January 2020. • Coordinated **Two Days** National Conference on *"Innovations in Material Science &*

	Technology" (NCIMST - 2015) at School of Engineering & IT, MATS University, Raipur. • Presented paper at National Conference (BITCON - 2015), organized by BIT, Durg. • Presented posters at National Conference on *"Recent Trends in Photonics"* (NCRTP - 2014), organized by S.O.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur. • Presented paper at National Conference on "*Applied Physics & Material Science"* (NCAPMS-2013), organized by Vasavi College of Engineering, Hyderabad. • Attended International Conference on "*Vedic Science & its Application*" (ICVSA-2010), Organized by Pt. Ravishankar Shukla University & Vigyan Bharti, Raipur.
Workshops	• Attended one day International Symposium on "*Recent Trends in optical materials & photonic devices*" held on 07th December 2022 organized by Dept. of Pure & Applied Physics, Guru Ghasidas Viswavidyalaya, Bilaspur. • Attended 12 days Training Program on "*12 Days Master Class on Motor Control for EV Application using MATLAB Simulink*" from 01st -12th January 2022 organized by Pantech e-Learning, Chennai. • Attended one day National Webinar on "*Nuclear Power for Sustainable Development*" held on 04th September 2021 organized by Institute of Renewable Energy Technology & Management & Public Outreach Centre, Pt. Ravishankar Shukla University, Raipur. • Participated in Two Weeks Hands-on Online Workshop Series on MATLAB for Engineering & Science in the workshop module code "*EXEWEE02: Modeling with MATLAB Simulink*", held during 12 - 25, July 2021 organized jointly by the ELIXIR Educational Services, Chhattisgarh and The Prime Academy, Tamil Nadu, India • Attended one day National Webinar on "*Science and Technology for Innovations, Entrepreneurship and Jobs*" held on 17th March 2021 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Attended one day National Webinar on "*Raman Effect and Fiber Optics Revolution*" held on 28th February 2021 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Attended one day National Webinar on "*Optical Communication: Innovation and Applications to 4G-5G Technology*" on 15th February 2021 organized by Govt. M.H. College of Home Science & Science for Women (Auto.) Jabalpur & State Project Directorate, Department of Higher Education,Govt. of M.P., Bhopal under the World Bank Project of M.P. Higher Education Quality Improvement Program. • Attended one day National Webinar on "*Optical & Electrical Modeling and Simulation for Organic Semiconductor Devices using SETFOS s/w*" held on 05th February 2021 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Attended AICTE ATAL five days National Workshop on "*Green Technology & Sustainability Engineering"* held on 08th -12th December 2020 at National Institute of Technology, Raipur, • Deputy Coordinator for *"Bright Idea Competition for Creating Awareness of Energy Conservation"* on 24th February 2020 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur in association with CREDA, Raipur. • Deputy Coordinator for **One Day Seminar** on *"Recent Advances in Sensors for Human Healthcare"* on 29th November 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur.

	• Deputy Coordinator for **GANDHI GLOBAL SOLAR YATRA: STUDENT SOLAR AMBASSADOR 2019**, "Solar Lamp Assembly Workshop" on 02nd October 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur in association with Indian Institute of Technology (IIT) Bombay. • Deputy Coordinator for **One Day Workshop** on *"Foldscope: An Educational & Research Tool"* on 30th September 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Organizing Committee Member for National Level **Six Day UGC Workshop** on *"MOOCs, E-content Development and Open Educational Resources"* from 19th – 24th August 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Organizing Committee Member for **World Bank funded SUPRABHA Technical Assistance Two Day Training Program** on "*Rooftop Solar Grid Engineers for Utility officers*" on 25th -26th April, 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Deputy Coordinator for National Level **Five Days** Workshop on "*Entrepreneurship & Skill Development Programme on Solar PV Rooftop"* from 3rd – 8th April 2019 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Deputy Coordinator for **Two Days** National Workshop on "*Computer Interfaced Science Experiments using ExpEYES"* (NWCISE-2019) on 30th -31st March 2018 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Deputy Coordinator for **05 Days** National Workshop on *Solar Entrepreneurship Development Program* from 22nd – 26th October 2018 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • Deputy Coordinator for **Six Days** National Workshop on "*Entrepreneurships in Renewable Energy Technologies for Chhattisgarh Tribal*" (ERETCT - 2016) from 19th – 24th September, 2016 at Institute of Renewable Energy Technology & Management, Pt. Ravishankar Shukla University, Raipur. • **Two Days** Workshop on "*MATLAB Programming*", from 30th to 31st October 2015, organized by School of Engineering & IT, MATS University. • UGC sponsored **Five Days** National Workshop on "*Operation and Maintenance of Laboratory Equipments*", from 19th to 23rd January 2015, organized by Western Regional Instrumentation Centre, University of Mumbai. • **Two Days** National Workshop on "*MATLAB Programming in Power Electronics & Control System*", from 21st to 22nd February 2014, organized by School of Engineering & IT, MATS University in Aaghaaz-2014. • UGC sponsored **Two Days** National Workshop APW-2011, on "*Recent Trends on Optical Fiber*", from 27th to 28th February 2011, organized by International School of Photonics at CUSAT, Cochin.

RECOGNITIONS

	▪ Overall 2nd Rank in Pt. Ravishankar Shukla University Merit List for M.Tech Course. ▪ **Certified Trainer** for Gandhi Global Solar Yatra: Student Solar Ambassador 2019

Recognitions and Responsibilities held	organized by Indian Institute of Technology (IIT) Bombay. ▪ **Successfully accomplished Training of Trainers (TOT)** Programme for Solar PV Installer (Suryamitra, Civil, Electrical) organized by Skill council for Green Jobs (SCGJ), Govt. of India at New Delhi. ▪ Founder member of Electronics Club and in charge of Information Cell of Electronics Club of S.O.S. in Electronics & Photonics (Pt.Ravishankar Shukla University, Raipur). ▪ General Secretary of Alumni Association of S.O.S. in Electronics & Photonics (Pt.Ravishankar Shukla University, Raipur). ▪ Secured 3rd Position in Model Competition in RITOFEST '06 organized by R.I.T. Raipur.

B.E. VIII SEMESTER PROJECT

Title of Project	**SMS Based Device Switching.**
Description	This Project is used to control eight electrical devices connected to the Kit. The status of the devices is made known to the user by the micro controller. The microcontroller polls each device and sends their status to user mobile phone. This enables the user to understand the status of each device.

B.E. VII SEMESTER PROJECT

Title of Project	**Implementation of 8 bit microprocessor using VHDL.**
Description	In this project all of the functionality will come from the VHDL code that is written. The processor will have most of the arithmetic and logic functions. The desired instructions executed and the data to be operated on was given to the system as inputs. The result of the executed instructions was output. Each part was designed separately and tested, after testing; the individual parts were integrated to test functionality, which together formed a simple microprocessor. Integration of parts was done with the use of packages in VHDL.

LIST OF PUBLICATIONS

- Papers in International /National Journal: **09**
- Paper in International /National Conference Proceedings: **05**
- Book Chapter: **01**

AREA OF INTEREST

- PV System Design, Characterization & System Losses Measurement, Charge Controller Design.
- LASER Material Processing, Optical Materials Synthesis and Characterization.

SKILLS AND STRENGTHS

Application Software & Languages	MATLAB Simulink, LabVIEW, OrCAD, PV*SOL, PVsyst, C & JAVA2.
Strengths	Learning Attitude, Innovative, Deterministic.

REFERENCES

1. **PROF. SANJAY TIWARI**
   Vice Chancellor, MP Bhoj Open University, Bhopal.
   Professor, S.O.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur.
   Visiting Fellow, Cambridge University, Ex- Visiting Associate Professor, University of California.
   Phone No. +91-94242-25771
2. **DR. RAM NARAYAN PATEL**
   Associate Professor,
   Department of Electrical Engineering,
   National Institute of Technology, Raipur.
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3. **SHRI PRASHANT KHARE**
   Scientific Officer/G,
   Head, Cryo-module Engineering Lab,
   Raja Ramanna Centre for Advanced Technology,
   Govt. of India,
   Department of Atomic Energy.
   Phone No. : +91-731-2442460.

MEMBERSHIPS

- Member of Indian Laser Association.
- Member of Photonics Society of India.
- Member of Chhattisgarh Vigyan Bharti.

PERSONAL DETAILS

Name	:	Gajendra Singh Rathore
Father's Name	:	Shri K.K.Rathore
Sex	:	Male
Date of Birth	:	05th August 1986
Linguistic Proficiency	:	English, Hindi
Nationality	:	Indian

I hereby declare that above data furnished are true to best of my knowledge and belief.

Gajendra Singh Rathore