

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 Till Date
Designation	Assistant Professor (Contract)
Responsibility	<ul style="list-style-type: none">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.Drafted syllabus of B.Voc. RETM Multiple-exit Degree Programme.

	<ul style="list-style-type: none"> ▪ Establishment of Renewable Energy Lab: Identification, Specification Study, Report submission for procurement of lab equipment. ▪ Procurement of books related to course. ▪ Complete data handling which includes: Admission, Scholarship, Attendance, Mentoring, Exam, Disciplinary, Website, Audit, DPC's. ▪ Prepared proposal for establishing non-residential training course Solar PV Installer, Suryamitra to Skill Council Green Jobs. ▪ Deputy Coordinator for Six Days National Workshop on “Entrepreneurships in Renewable Energy Technologies for Chhattisgarh Tribal” (ERETCT - 2016) from 19th – 24th September, 2016 at Renewable Energy Technology & Management Centre, Pt. Ravishankar Shukla University, Raipur. ▪ Conducted 06 days training program in Solar PV Installer. ▪ Conducted various Expert Talks, few of them were: <ul style="list-style-type: none"> ❖ Dr. S.K. Malhotra, Secretary, Atomic Energy Educational Society. ❖ Dr. Prabhat Dwivedi, Senior Scientific Officer, Nanoscience Deptt, IIT Kanpur. ❖ Shri M.P. Kamath, Scientific Officer/G, RRCAT, Indore. ❖ Dr. D.P. Ojha, Professor & Head, Deptt. of Physics, Sambalpur University. ❖ Dr. O.G. Kulkarni, Advisor, Energy Expert, Govt. of Maharashtra. ❖ Dr. Dalip Singh Mehta, Professor, IIT Delhi.
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Organisation	MATS University, Raipur
Period	From August '12 to December '15
Designation	Assistant Professor
Responsibility	<ul style="list-style-type: none"> ▪ M.Tech (Power Electronics) Course Co-Coordinator under Department of Electronics & Communication, School of Engineering & IT. ▪ 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	<p>a) Node Monitoring using reverse receiver and to rectify corresponding problems with the co-ordination of fiber team (e.g. OFC Breakdown etc.)</p> <p>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.</p> <p>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.</p> <p>d) Taking care of consumption record & reporting to higher officials.</p> <p>Achievements:</p> <ul style="list-style-type: none"> ▪ 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	<p>a) Planning & Execution of new projects.</p> <p>b) Developed Internal Network Infrastructure.</p> <p>c) Worked on the project based on Java & get hands on for web development tools like Drupal, Dreamviewer etc.</p>

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	<ul style="list-style-type: none"> ▪ 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.
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	<ul style="list-style-type: none"> • 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	<ul style="list-style-type: none"> • Attended One Day Faculty Seminar on “<i>Emerging Solar PV Technology Applications for Academics</i>” conducted at PVG’s College of Engineering & Technology, Pune on 24th of February 2016. • Attended Two Weeks ISTE Short Term Training Programme on “<i>Engineering Physics</i>” under NMEICT (MHRD) conducted by IIT, Bombay from 08th to 18th December 2015. • Attended Two Days Short Course on “<i>Ultrafast Laser Pulses - Generation, Amplification & Characterization</i>” organized by INDIAN LASER ASSOCIATION at RRCAT, Indore on 29th & 30th November 2010.
Conferences	<ul style="list-style-type: none"> • Coordinated Two Days National Conference on “<i>Innovations in Material Science & Technology</i>” (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 “<i>Recent Trends in Photonics</i>” (NCRTP - 2014), organized by S.O.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur. • Presented paper at National Conference on “<i>Applied Physics & Material Science</i>” (NCAPMS-2013), organized by Vasavi College of Engineering, Hyderabad. • Attended International Conference on “<i>Vedic Science & its Application</i>” (ICVSA-2010), Organized by Pt. Ravishankar Shukla University & Vigyan Bharti, Raipur.

<p>Workshops</p>	<ul style="list-style-type: none"> • Deputy Coordinator for Six Days National Workshop on “<i>Entrepreneurships in Renewable Energy Technologies for Chhattisgarh Tribal</i>” (ERETCT - 2016) from 19th – 24th September, 2016 at Renewable Energy Technology & Management Centre, Pt. Ravishankar Shukla University, Raipur. • Two Days Workshop on “<i>MATLAB Programming</i>”, from 30th to 31st October 2015, organized by School of Engineering & IT, MATS University. • UGC sponsored Five Days National Workshop on “<i>Operation and Maintenance of Laboratory Equipments</i>”, from 19th to 23rd January 2015, organized by Western Regional Instrumentation Centre, University of Mumbai. • Two Days National Workshop on “<i>MATLAB Programming in Power Electronics & Control System</i>”, 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 “<i>Recent Trends on Optical Fiber</i>”, from 27th to 28th February 2011, organized by International School of Photonics at CUSAT, Cochin.
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AWARDS & RECOGNITIONS

<p>Positions and Responsibilities</p>	<ul style="list-style-type: none"> ▪ Overall 2nd Rank in Pt. Ravishankar Shukla University Merit List for M.Tech Course. ▪ Conducted & Coordinated various Conferences, Workshops, Expert Lectures, Training Program. ▪ Hosted National Conference on Recent Trends in Photonics (NCRTP-2014), Organized by S.O.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur. ▪ Member of Organizing Committee of National Conference on Recent Trends in Photonics (NCRTP-2014), Organized by S.O.S. in Electronics & Photonics, Pt. Ravishankar Shukla University, Raipur. ▪ Member of Organizing Committee of Annual Tech-fest (Aaghaaz-2k14), Organized by School of Engineering & IT, MATS University. ▪ Member of Organizing Committee & In charge of Stage Management Committee of International Conference on “Vedic Science & its Application” (ICVSA-2010), Organized by Pt. Ravishankar Shukla University & Vigyan Bharti, Raipur. ▪ 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. ▪ Merit Card in General Knowledge competition held by various organizations.
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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

- Total no. of Papers: **10**
- Papers in International Journal: **08**
- Paper in National Conference: **02**

REVIEWER/EDITOR OF JOURNAL

- Reviewer of “*Journal of Radiation Research & Applied Sciences, Powder Technology (Elsevier Science Direct)*”.
- Reviewer of “*Luminescence: The Journal of Biological and Chemical Luminescence (John Wiley)*”.
- Member of Editorial Board of “*Advance Physics Letter*”.

AREA OF INTEREST

- PV System Design, Characterization & System Losses Measurement.
- Solar Cells Fabrication
- Non-Conventional Energy Sources.
- LASER Material Processing, Optical Materials Synthesis and Characterization.
- Organic Display Devices (**OLED's**).

SKILLS AND STRENGTHS

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

REFERENCES

- SHRI P.K.KUSH**
Scientific Officer/H,
Head, Cryo-engineering and Cryo-
module Development Section,
Raja Ramanna Centre for
Advanced Technology,
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- SHRI PRASHANT KHARE**
Scientific Officer/G,
Head, Cryo-module Engineering
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- DR. SANJAY TIWARI**
Professor, S.O.S. in Electronics
& Photonics, Pt. Ravishankar
Shukla University, Raipur.
Visiting Fellow, Cambridge
University,
Ex- Visiting Associate
Professor, University of
California.
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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