



Rohit Kumar Rastogi

Electrical Engineering (Spec. Power Electronics and drives), M.tech and Ph.D. Research Scholar in Department of Electrical Engineering of IIT Roorkee (in present)



Profile

Enthusiastic and devoted Ph.D. candidate with expertise in power distribution systems, control techniques, and programming skills pursuing a challenging position in the industry. I intend to utilize my research background, analytical skills, and software expertise to contribute to the creation and optimization of power system solutions.



Work and Research experience

present
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2019

Doctor of Philosophy (Ph.D.) Research Scholar *Indian Institute of Technology Roorkee, India*

- Expected to complete my Ph.D. by 2024.
- Published research papers in various conferences and journal.
- Course work (Pre-Ph.D.) completed with 8.335 CGPA.
- Registered Ph.D. Candidate (2020).
- My topic for research: Design of controllers for stability of DC Microgrid.

2019
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2018

Assistant Professor

V.B.S. Purvanchal University, Jaunpur

- Established Power Electronics lab for B.Tech 3rd year course.
- Supervised two Groups of B.Tech Final year project.
- Taught subjects (Electrical Measuring Instruments and Measurements, and Industrial Electronics courses of B.Tech 2nd and 4th year respectively).



Education

2018
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2016

Master of Technology

National Institute of Technology, Kurukshetra

Courses and Achievements:

- Developed the ability to analyze complex power systems through modeling the system.
- M.Tech courses such as Digital Control System, Modeling and control of AC motors and various courses on power electronic specialization helped me to gain insight of the subject.
- PLC programming industrial level course in M.Tech.
- M. tech Dissertation on “Modified Droop Control Schemes for Wind Energy System under Islanded Microgrid”
- Published research article: R. K. Rastogi and R. Sharma, “Improved Synchronization and Voltage Regulation of DFIG based Wind Energy System (WES)” *2018 International Conference on Current Trends towards Converging Technologies (ICCTCT)*, Coimbatore, India, 2018, pp. 1-5.



Contact

Email
✉ rkumarrastogi@ee.iitr.ac.in

Phone
☎ +91 798 830 3654

Address
🏠 Q-15 Vikas Kunj, IIT Roorkee, UttaraKhand



Skills

- Proficient in programming languages: Python, MATLAB.
- Expertise in using simulation software: PS-CAD, MATLAB Simulink.
- Strong analytical and problem-solving skills.
- Deep understanding of distribution power systems, control techniques, and stability analysis.
- Ability to work collaboratively in cross-functional teams and manage multiple projects simultaneously.
- Excellent verbal and written communication skills.
- Strong publication record and experience in academic writing.



Languages

English Intermediate

Hindi Fluent



Publications

- Authors: Rohit Kumar Rastogi and Rahul Sharma.
- “Improved Synchronization and Voltage Regulation of DFIG based Wind Energy System (WES),” *IEEE International Conference on Current Trends towards Converging Technologies (ICCTCT)*, Coimbatore, India, 2018, pp. 1-5. Online Link
- Authors: Rohit Kumar Rastogi and Manoj Tripathy.
- “Droop based PLL Control for WES for application of DC Microgrid,” *2022*

2014
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2010

Bachelor in Technology

V.B.S. Purvanchal University, Jaunpur (Deemed state Gov. University)

Courses and Achievements:

- Development of overall personality and habits during this period.
- Built foundation of Electrical Engineering from courses offered in B.Tech.
- Co-ordinator for programs to Celebrate Engineers day in our college.
- Join the Meditation session named 'Yes + art of living' for 2 week duration (morning). Art of Living foundation by Sri Sri Ravi Shankar.
- Utilized knowledge of various subjects studied in B.Tech specially Power system analysis, Switch gear and protection (**Distinction**) B.tech project.
- Completed B.Tech project on "Voltage stability assessment of transmission lines using matlab".

Aims and Objectives

2024

Be an industry professional

Our future expectation is to become well trained industry and marketing personal. My future goal is to become a well-trained industry professional in the field of data science and analytic. I am passionate about leveraging data-driven insights to solve complex business challenges and drive informed decision-making.

2023

Open for learning new things

To achieve this goal, I plan to further enhance my programming skills in Python and gain proficiency in machine learning algorithms and statistical modeling techniques.

2019

Research oriented mindset

I am committed to continuous learning and staying updated with the latest advancements in power system research even if paradigm get shift. By participating in industry conferences, workshops, and online courses, I seek to broaden my knowledge and stay at the forefront of emerging trends.

2018

Be an innovative

Furthermore, I aspire to work in a dynamic and innovative environment where I can collaborate with diverse teams to tackle real-world problems and contribute to the development of cutting-edge solutions.

2016

Strong pillars makes strong

I believe that with a strong foundation in Electrical Engineering and a dedication to lifelong learning, I can make meaningful contributions to the industry and drive positive change through data-driven decision-making.

IEEE 2nd International Conference on Sustainable Energy and Future Electric Transportation (SeFeT), Hyderabad, India, 2022, pp. 1-5. Online Link

- "A New Adaptive POL Converter Controller Design to Improve Bus Voltage Stability for DC Microgrid Application," 2023 IEEE IAS Global Conference on Renewable Energy and Hydrogen Technologies (GlobConHT), Male, Maldives, 2023, pp. 1-6. Online Link
- "A New Adaptive Damping Control for Load-side Converters to Mitigate Instability in DC Microgrids for Constant Power Loads," IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, Brussels, Belgium, 2022, pp. 1-6. Online Link
- Published Journal Article
(1) "A New Adaptive POL Converter Controller Design to Improve Bus Voltage Stability for DC Microgrid Application," in IEEE Canadian Journal of Electrical and Computer Engineering, vol. 46, no. 4, pp. 288-297, Fall 2023. Online Link

I hereby declare that all the information provided in this CV is true, complete, and accurate to the best of my knowledge. I understand that any false or misleading information provided in this CV may result in the rejection of my application or termination of employment, if hired.

I also authorize the company/recruiter to verify the information provided in this CV, including educational qualifications, work experience, and any other relevant details. I agree to provide any supporting documents or certificates as required for verification purposes.

I understand that this CV is intended for the purpose of seeking employment, and any personal data provided will be used solely for recruitment purposes.

Date: [05-Aug-2023] Place: [Roorkee, UK]

Signature: Rohit Kumar Rastogi