

NEHA SINGH

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CAREER OBJECTIVE

To work with an organization with a scope for self-improvement and knowledge enhancement, contributing towards field of education and organizational development.

PROFILE URL

Academia Profile - <https://independent.academia.edu/NehaSingh1098>

Google Scholar Profile - <https://scholar.google.com/citations?hl=en&user=JLeY9ogAAAAJ>

My Science PG Profile - <http://scholarprofiles.com/0000-2997-7794>

ORCID Profile - <https://orcid.org/0009-0003-1036-6612>

LinkedIn Profile - <https://www.linkedin.com/in/neha-singh-812957203/>

PROFESSIONAL MEMBERSHIP

- ISTE Lifetime member, Member Number: LM139347.
- IAEEE Lifetime member, Member Number: 71051048.

WORK EXPERIENCE

- Reviewer at- Science Publishing Group (SciencePG) - EAS
- Reviewer at - Journal of Engineering Research and Sciences (JENRS)- JSR02206
- Reviewer at - Advances in Science, Technology and Engineering Systems Journal (ASTESJ)- AJR01265.
- Working as an Assistant Professor from March 2023 for the Department of Electronics & Telecommunication Engineering in ISB&M College of Engineering Nande, Pune.
- Working as an Assistant Professor since 22nd February 2017 to 28th February 2023 for the Department of Electrical Engineering in Bhabha University Bhopal, Madhya Pradesh.
- Worked as Lecturer from 04th September 2015 to 31st January 2017 for Electrical Department-PIT, Patel Group of Institutions, Bhopal, Madhya Pradesh.

ACADEMICS

COURSE	COLLEGE/ SCHOOL	UNIVERSITY/ BOARD	% MARKS OBTAINED	YEAR OF PASSING
Ph.D.* (Electrical Engineering)	Bhabha Engineering Research Institute	Bhabha University	Pursuing	
M. Tech. (Power Systems)	RGPV, Bhopal, MP	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	82.7	2021
B.E. (EEE)	RKDF Institute of Science & Technology, Bhopal	Rajiv Gandhi Proudyogiki Vishwavidyalaya, Bhopal	75.02	2015
12th	D.A.V. Public School	CBSE	72	2010
10th	D.A.V. Public School	CBSE	86	2008

PATENTS

1. Patent in process on “**IOT based electric vehicle energy consumption predicting device**”
Application Number: 447999-001, CBR Number: 203176, CBR Date: 13/02/2025 17:00:19,
<https://search.ipindia.gov.in/DesignApplicationStatus>.
2. **Patent on “Power Grid Energy Management Device**” Design number: 6362025, Grant date: 02 May 2024, International Design Classification: Version: 14-2023 Class: 10 clocks and watches and other measuring instruments, checking and signalling instruments subclass: 04 other measuring instruments, apparatus and devices. <https://www.registered-design.service.gov.uk/find/6362025> .

PAPER PUBLICATIONS/ CONFERENCES

1. “**AI & IoT for Smart Energy Management in Green Systems**” published in Elsevier Journal of Engineering and Technology Management (JETM) (SCOPUS) – ISSN: 1879-1719, Volume 77, 2025. PAGE NO: 520- 547, <https://jet-m.com/wp-content/uploads/48-JETM9265.pdf> ,
doi.org/10.5281/zenodo.16739045.
2. “**Real-Time Fault Detection and Localization in Power Transmission Lines Using Artificial Neural Networks**” published in **Gradiva Review Journal (SCOPUS)** on VOLUME 11 ISSUE 7 2025, PAGE NO: 509-514, ISSN: 0363-8057, DOI: 10.37897.GRJ.2025.V11I7.25.514216,
<https://gradivareview.com/volume-11-issue-7-2025/>

3. **"Tank Simulator"** published in the **International Scientific Journal of Engineering and Management** on Volume 04 Issue 05 May–2025, DOI: 10.55041/ISJEM03952
<https://www.doi.org/10.55041/ISJEM03952> , Paper Download
Link: <https://isjem.com/download/tank-simulator/> .
4. **“Human-Centric Robotics: Innovations in Safety and Interaction”**, published in the International Scientific Journal of Engineering and Management (ISJEM) on Volume 04 Issue 03 March – 2025, DOI:10.55041/ISJEM02430, <https://www.doi.org/10.55041/ISJEM02430>, <https://isjem.com/download/human-centric-robotics-innovations-in-safety-and-interaction/>
5. **“Next-Generation Energy Storage for Renewable Energy Systems”**, published in the International Scientific Journal of Engineering and Management (ISJEM) on Volume 04 Issue 03 March–2025, DOI:10.55041/ISJEM02302 <https://www.doi.org/10.55041/ISJEM02302>, <https://isjem.com/volume04issue03march2025/>
6. **“Integrated Access Backhaul (IAB) in 5G: Architecture, Challenges, and Future Perspectives”** International Journal of Scientific Research in Engineering and Management (IJSREM) on Volume 08, Issue 12 December 2024, ISSN No.2580-3930. <https://ijsrem.com/download/integrated-access-backhaul-iab-in-5g-architecture-challenges-and-future-perspectives/>
7. **“Machine Learning-Driven Paradigms in VLSI Design: Exploring the Synergy with Pruning for Optimal Circuit Efficiency”** International Journal of Scientific Research in Engineering and Management (IJSREM) on Volume 08, Issue 12 December 2024, ISSN No.2580-3930. <https://ijsrem.com/download/machine-learning-driven-paradigms-in-vlsi-design-exploring-the-synergy-with-pruning-for-optimal-circuit-efficiency/>
8. **“Advancements And Efficiency Of Solar Thermal Heating Systems”** International Journal of Engineering Applied Sciences and Technology, 2024, Vol. 9, Issue 05, ISSN No. 2455-2143, Pages 210-213 Published Online September 2024 in IJEAST (<http://www.ijeast.com>), <https://www.ijeast.com/papers/210-213,%20Tesma0905,IJEAST,%2023443.pdf>
9. **“Fault Detection and Location in Power Systems: Advances and Techniques”** IJSET VOLUME 12, ISSUE 5, 2024, ISSN (Online): 2348-4098, ISSN (Print): 2395-4752. https://www.ijset.in/wp-content/uploads/IJSET_V12_issue5_729.pdf.
10. Presented a Paper on **“Improved Energy Management for a Micro grid including Electric Vehicle Charging Stations”** in **“International Conference on Multidisciplinary Emerging Trends in Engineering and Technology (ICMETET - 2024)”**, Organised by ISBM COE, Nande, Pune from April 25th - April 27th ,2024.

11. “Comparative Analysis of the VSC (Voltage Source Converter) Control Approach AES-FLL and Grid Synchronization Approach” METSZET (SCOPUS) VOLUME 8 ISSUE 7, 2023 ISSN: 2061-2710. Page no. 326-330

https://drive.google.com/file/d/1Y0JMHw127uV2o25V2t_AJmgV75tU6lfl/view

12. “Power Quality Improvement for Micro grids using D-STATCOM” IJCRT- International Journal of Creative Research Thoughts/Vol.8 Issue 2nd October 2020/ISSN-2320-2882.

13. “Power Quality Improvement for Micro grids using D-STATCOM” International Research Journal of Engineering Technology (IRJET) e-ISSN: 2395-0056, p-ISSN: 2395-0072 Volume: 07 Issue: 8th November 2020.

M. tech Thesis Topic

Power Quality Improvement for Micro grids using D-STATCOM

B.E PROJECTS

- Hybrid (Solar tracker and Wind mill) battery charger with inverter. (Major)
- Bi-Directional Photoelectric System. (Minor)

INDUSTRIAL TRAINING

- Steel Authority of India, Bokaro, Jharkhand (June 2016)
- Damodar Valley Corporation, Chandrapura, Jharkhand (July 2016)

OBJECTIVE OF TRAINING

- Maintenance of ES-2, ES-1 Switchyard & Instrumentation
- Transformers and Generators Maintenance

ACHIEVEMENTS & CERTIFICATIONS

1. Organized online one week National-Level Workshop /FDP on “**Application Development with AI & Essential Skills**”, in collaboration with Brainovision Solutions India Pvt. Ltd. and AICTE, from 23/06/2025-27/6/2025.
2. Participated in the One Week FDP on “**Next-Gen AI: Innovations in Machine Learning, Deep Learning, and Generative Models**” organized by Department of Computer Engineering, Marathwada Mitra Mandal’s Institute of Technology, Lohgaon, Pune During 6th to 11th January 2025.

3. Participated in the One week Faculty Development Program on “**Exploratory Data Analysis: Techniques and Tools**” organized by Department of Artificial Intelligence & Data Science, Marathwada Mitra Mandal’s Institute of Technology, Lohgaon, Pune During 23rd to 28th December 2024.
4. Attended 1 day, **NPTEL E-Awareness** workshop on 9th August 2024.
5. Presented Paper in International Conference on “**Multidisciplinary Emerging Trends in Engineering & Technology**” on “Energy Management for Micro grids” on 26 April 2024 at ISB&M College of Engineering, Nande,Pune.
6. Attended 5 days ISTE approved FDP on “**Bridging Academia by Advancing Research and Teaching with AI and Machine learning**” held during 01.07.2024 to 05.07.2024 organized by Dr. D.Y.Patil Institute of Technology, Pimpri, Pune, Maharashtra.
7. Attended 1 day webinar on “**OptiSystem for Optical Communication & Amplifier Design Simulation Techniques**”, Organized by IETE-SF of K.C. College of Engineering and Management Studies and Research held on 23rd February 2024.
8. Attended 2 days online FDP on **AI Driven Advancements in Modern Wireless Communication**, under Shastri Indo Canadian Lecture Series held on January 23rd & January 24th 2024
9. Attended 5 days online workshop on **VLSI To system Design: Silicon to end Application Approach**, under AICTE Arm Education and STMICROELECTRONICS from July 31st to 4th August 2023.
10. Attended **One Week FDP on " Innovative Teaching Methodologies: A Creative Pedagogy"** organized by Department of Robotics & Automation and Artificial Intelligence & Data Science, D. Y. Patil College of Engineering, Akurdi, Pune in association with ISTE & IQAC DYPCOE Akurdi, Pune.
11. Attended 1 day online seminar on “**A New Vision for Future of Education**”, under **National Education policy 2020** on July 25th 2023 on occasion of NEP-2020 Awareness Week July 24th to 29th July 2023 organized by Vidya Niketan College of Engineering, Bota.
12. Attended 2 days Short Term Training Programme on “**Advanced Engine Technology and Alternative Fuel Source**”, under TEQIP-III, RGPV, Bhopal
13. Attended National Seminar 2017 on “**Modern Teaching Techniques of Digitalization in Environmental Legislation & Policies**” at Bhabha Group of Institutions, Bhopal.
14. Environment Nodal Officer – Engineering, Bhabha University.
15. Member of Training & Placement Cell, Bhabha University.
16. AICTE Coordinator - Engineering, Bhabha University.
17. Conducted Webinar on “**Electrical Corona**”. (April 2020)
18. Conducted Webinar on “**Use of Information & Communication Technology in Good Governance**”. (June 2020)
19. Conducted Webinar on “**Application of PLC in Industries**”. (July 2020)

20. Conducted Webinar on “**Solar Power Generation and its Uses**”.(August)

21. Member in Women Grievance Cell, Bhabha University.

22. Coordinator stage committee in Patel Group of Institutions.

23. Coordinator cultural event in Patel Group of Institutions.

PERSONAL DETAILS

- Father’s Name : Mr. Abhay Pratap Singh
- Mother’s Name : Mrs. Sadhna Singh
- D.O.B : 08-09-1991
- Present address : E-101, Teerth Aarohi, Parkhe Vasti, Sus, Pune - 411021

NEHA SINGH

Place: Pune

Date: