

SNEHIL VERMA

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Education

Indian Institute of Technology (ISM), Dhanbad

Master of Technology in Electrical Engineering (GPA: 8.55 / 10.00)

July 2023 - May 2025

Dhanbad, Jharkhand

- **Relevant Coursework:** Power Electronic Converters, EHV's, Renewable Energy Sources, Smart Grid

Rajkiya Engineering College, Mainpuri

Bachelor of Technology in Electrical Engineering (GPA: 8.32 / 10.00)

July 2018 - Aug 2022

Mainpuri, Uttar Pradesh

- **Relevant Coursework:** Power Electronics, Electrical Machines

Research Paper

Enhancing Small Vehicle Performance with BWO MPPT-based Solar-Powered BLDC Motors

21st India Council International Conference (INDICON), IIT Kharagpur, 2024

Published

Multi-Frame Modeling of Five Phase IM with M-L Space Vector PWM-Fed Voltage Source Inverter

5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (SeFet), MNIT Jaipur, 2025

Presented

Loss Modeling and Harmonic Analysis of Five Phase VSI Driven IM for EV Applications

5th IEEE International Conference on Sustainable Energy and Future Electric Transportation (SeFet), MNIT Jaipur, 2025

Presented

Projects (Link)

Software Model

Modelling of Five phase Induction Motor and Inverter | MATLAB/Simulink

Sept 2024-March 2025

1st International Conference SSDEE-25 Website Development

PHP, HTML, CSS, Bootstrap

Jun 2024 -Jul 2024

Multi-Input Single-Output DC-DC Converter for PV Water Pumping Application

MATLAB/Simulink, BLDC motor

Jun 2024

Direct Torque Control of Induction Motor Using SVPWM

Power Electronics and Drives, MATLAB/Simulink

Dec 2023 - Feb 2024

Voltage and frequency restoration and Accurate reactive power sharing for Inductive Transmission Line

MATLAB/Simulink

Apr 2024

An Effective Implementation of PMU by using Recursive and Non-Recursive DFT Algorithm

MATLAB/Simulink

Feb 2024

Optimal Coordination of Over-current relay with DG integration

MATLAB, AMPL, DlgSILENT Power Factory

Oct 2021- May 2022

Hardware Model

TI C2000 MCUs | TMS320F28379D LaunchPad, Code Composer Studio, MATLAB/Simulink

Oct 2024 - April 2025

Buck, Boost and Buck-Boost Converter | Simulink, Perfboard

Mar 2024 - Apr 2024

Smartphone Controlled Robotic Car | C++, Arduino

June 2018 - July 2018

Cloud Seeding | Prototype for exhibition

Nov 2016 - Dec 2016

Skills

Technical Languages and Softwares: Java, MATLAB, HTML, CSS, Inkscape, Illustrator

Soft Skills: Analytical thinking, Adaptability, Collaborative Teamwork

Achievements

- Certified with a GOLD Medal from IIT, Kanpur in the Enhancing Soft Skill and Personality MOOC course.
- Scored 100% in Computer Science.

Social Engagements

Management and Web Development Committee: 1st International Conference SSDEE-25.

Sports-Engagements: Badminton, Chess.