



Rakesh Bawari

Roll No.: 2022UEE1346

Electrical Engineering

B.Tech.

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SUMMARY

Final-year Electrical Engineering student at MNIT Jaipur with strong fundamentals in electrical machines, power systems, and industrial equipment. Hands-on experience in transformer manufacturing and testing, including testing and insulation checks. Interested in plant operations, maintenance, and troubleshooting in continuous process industries.

EDUCATION

Malaviya National Institute of Technology, Jaipur

2026

B.Tech in Electrical Engineering

Rajendra Marg School, Bhilwara

2022

Board of Secondary Education, Rajasthan

Shree Surbhi Secondary School, Bhilwara

2020

Board of Secondary Education, Rajasthan

EXPERIENCE

Summer Intern at Shri Krsna Sudarshan Urja PVT. LTD, Jaipur

May 2025 - June 2025

Testing engineer Intern

On-site

- Worked in Transformer Testing Department, performing tests such as HV/LV winding tests, insulation checks, and dielectric testing (DVDF).
- Gained hands-on exposure to complete transformer manufacturing cycle including winding, core assembly, oil filling, and testing.
- Observed and assisted in quality control and fault identification during testing procedures.

PROJECTS

Flying object detection using millimetre radar wave

December 2025

Department of electrical engineering, MNIT Jaipur

- Developed a mmWave radar-based system to classify flying objects (birds, drones, helicopters, jets) using point-cloud geometric features and a Decision Tree classifier.
- Implemented point-cloud preprocessing (noise removal, ground filtering, 3D→2D projection) and extracted shape-based features such as spread, density, and aspect ratio.

Design & Simulation of Buck Converter with Open Loop and Closed Loop Control

December 2024

Department of Electrical Engineering, MNIT Jaipur

- Conducted a comprehensive study on magnetic components and designed an optimized inductor and buck converter system. The project involved modeling and simulating both open-loop and closed-loop control architectures using MATLAB Simulink. Performance evaluation focused on transient response, voltage regulation, and efficiency under varying load conditions.

SKILLS AND INTERESTS

Technology: Multimeter and Megger testing, Basic VFD operation, Matlab, Autocad

Core Competencies: Preventive Maintenance Basics, Industrial Safety Awareness, Equipment Handling (Transformers and Motors)

Soft Skills: Time Management, Leadership, Decision Making, Multitasking

POSITIONS OF RESPONSIBILITY

• **Executive**, Blitzschlag 2024, MNIT

Rajasthan's second largest cultural fest

• **Member**, Blitzschlag 2023, MNIT

Rajasthan's second largest cultural fest

ACHIEVEMENTS

• **Dean's Appreciation Award** For improving SGPA by More than 2 points.

2025

• **JEE Mains** 92 %ile

2022