

PRASHANT KUMAR SUDHANSHU

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Career and Objectives

To begin my career as an electrical engineer in a growth-oriented organization where I can apply my technical knowledge, analytical thinking, and problem-solving skills to contribute to efficient and reliable engineering solutions while continuously enhancing my professional expertise.

Education

National Institute of Technology Jamshedpur
Master of Technology in Power Electronics and Drives
Currently Pursuing

Aug. 2025 – June 2027
City: Jamshedpur (Jharkhand)

GATE QUALIFIED 2024

Government Engineering College Siwan
Bachelor of Technology in Electrical Engineering
Grade: 7.87 CGPA

Dec. 2021– Aug 2024
City: Siwan (Bihar)

Government Polytechnic Chapra
Diploma In Electronics Engineering
Grade:7.97 CGPA

Aug. 2018-Nov 2021
Saran (Bihar)

Relevant Coursework

- Electrical Engineering
- Control System
- Power Electronics & Drives
- System Simulation
- Analog & Digital Electronics
- Microcontroller & Microprocessors

Internships and workshops

Completed one-month industrial training on web design and development from Polytropic Services PVT. LTD

Academic Projects

Home Energy Management System using IoT.

BTech Project

- Developed a comprehensive Home Energy Management System leveraging Internet of Things (IoT) technologies to optimize energy consumption and efficiency.
- Integrated IoT-enabled sensors (i.e., ACS712 current sensor) and microcontroller (i.e., ESP8266 Node MCU) to monitor and control household energy usage in real-time.
- Utilized a user-friendly mobile application to analyze energy consumption patterns and identify inefficiencies, providing homeowners with real-time feedback and control over their energy usage.

Projects

Modelling and designing DC-DC converters for switch mode power supply applications.

- Conducted comprehensive modelling and simulation of isolated DC-DC converter topologies, such as flyback, and forward converters, using MATLAB/Simulink.
- Implemented and optimized control strategies, including pulse-width modulation and current-mode control, to ensure stable and efficient operation of DC-DC converters.
- Utilized soft switching techniques to improve converter efficiency and reduce switching losses.

Technical Skills

Languages: C, Python (Basic)

Tools / Software: MATLAB-Simulink,

Documentation Tool: Word, Power Point, Excel

Declaration

I hereby declare that the information provided is true and correct to the best of my knowledge.

Signature.

Prashant Kumar Sudhanshu

