



Shubham kumar

B.Tech
Electrical Engineering
National Institute of Technology, Patna

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EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
Electrical Engineering	National Institute of Technology, Patna	8.03	2022-26
Senior Secondary	Central Board of Secondary Education	78.2	2021
Secondary	Central Board of Secondary Education	86.8	2019

EXPERIENCE

- South Bihar Power Distribution Ltd.** May 2025 – July 2025
Summer Intern Patna, Bihar
 - Gained hands-on experience with the functionality and testing procedures of smart meters.
 - Studied the functioning of live power distribution monitoring using real-time data acquisition and fault diagnostics.
 - **Tools Used:** SCADA systems including RTU, FRTU, RMU, and protection relays at PESU control center, Patna.

PROJECTS

- Smart Street Lighting System**
Tools and technologies used: Power Electronics, IoT
 - Created an intelligent street lighting system that adjusts brightness based on ambient light and traffic.
 - Integrated light sensors and Arduino to automate lighting control.
 - Employed IoT connectivity for remote management and energy consumption tracking.
 - Enhanced energy efficiency and reduced operational costs through smart scheduling.
- IoT-Based Water Level Detection System (Minor Project)**
Tools and technologies used: IoT, Power Electronics, Machine Design
 - Utilized an HC-SR04 ultrasonic sensor to measure water levels and calculate percentage fill.
 - Implemented Arduino for data processing and communication with a Python application for real-time monitoring.
 - Enabled remote access to water level data via a user-friendly interface, enhancing operational efficiency.
- Transmission Line Fault Analysis and Detection**
Area Used: Power Systems, MATLAB
 - Conducted an analysis of transmission line and distribution system faults using MATLAB to enhance reliability and safety.
 - Developed a MATLAB simulation model to identify and analyse various fault types in transmission lines.
 - Analyzed the impact of different fault conditions on system stability and performance, providing insights for system optimization.

TECHNICAL SKILLS & EXPERTISE

Core Electrical: Power Systems, Control Systems, Electrical Machines, Power Electronics, Circuit Analysis
Software & Tools: MATLAB, Simulink, AutoCAD(Basic) Electrical, Git, GitHub
Programming Hardware: Python, C++, Microcontrollers (Arduino), VHDL/Verilog(Basic), IoT
Relevant Coursework: Data Structures Algorithms, Object-Oriented Programming, DBMS, Computer Networks
Soft Skills: Leadership, Team Management, Public Speaking, Problem-Solving

POSITIONS & RESPONSIBILITY

- Vice-President** Mar 2024–Present
SAPTAK, music club NITP
 - Spearheaded a team of 30+ musicians as Vice-President of SAPTAK Music Club, organizing 5+ events attended by over 1000 people, increasing audience engagement by 45% through enhanced performance and strategic planning.
- Design Team lead** 2022–2025
Training and Placement Cell, NITP
 - Directed a 5-member team to develop NIT Patna's 2024-25 Placement Brochure, reaching 400+ recruiters and 700+ students; enhanced onboarding, increasing placement offers by 25%.

CERTIFICATIONS

- Larsen & Toubro:** Certificate of Participation, CreaTech 2024, a Technology Innovation Contest.
- TVS:** Certificate of Participation in TVS Credit EPIC 6.0-IT Track.