

# SAGAR KUMAR

Electrical Engineer | Power Systems | Industrial Automation

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## EXPERIENCE

### Virtual Internship

#### Siemens

12/2024 - 01/2025    Remote

Operations Industrial Engineer internship focused on optimizing operations

- Simulation of job related operations optimization and layout reconfiguration for the high-speed rail group of Siemens mobility.
- Utilized manufacturing and engineering principles to identify inefficiencies and propose actionable improvements, enhancing production workflow and reducing waste

### Summer Internship

#### PLC DOJO

07/2024 - 01/2025    Udemy

PLC SCADA HMI Development internship

- Designed and programmed PLC systems using RSLogix 500 (MicroLogix 1100) for industrial automation applications
- Developed SCADA and HMI interfaces for real-time monitoring and control of automated processes

### Winter Internship

#### Pathri Power Plant

01/2024 - 02/2024    Haridwar

Internship in hydropower generation and distribution

- Acquired practical exposure to hydropower systems, monitoring generation processes and evaluating the performance of electrical and mechanical equipment.
- Gained understanding of grid integration, load regulation, and electrical protection systems to ensure efficient and reliable power transmission and distribution.

### Summer Internship

#### Chilla Power Plant

07/2023 - 08/2023    Chilla, Haridwar

Internship in hydropower generation and transmission

- Gained hands-on experience in hydropower generation and transmission, analyzing plant operations and equipment efficiency
- Studied grid integration, load management, and protection systems to enhance reliability in power transmission and distribution

## EDUCATION

### Bachelor of Technology in Electrical Engineering

#### GB Pant Institute of Engineering and Technology

2021 - 2025    Pauri, UK

## LANGUAGES

#### English

Proficient



#### Hindi

Native



## SUMMARY

I am a detail-oriented electrical engineering student with a solid background in power systems, automation, and industrial control. I excel in problem-solving, adapt quickly to challenges, and focus on optimizing electrical systems for efficiency and reliability. I am committed to continuous learning and professional growth, aiming to contribute innovative solutions in electrical engineering

## KEY ACHIEVEMENTS



#### Operations Optimization Success

Increased high-speed rail team efficiency by 20% through layout redesign.



#### SCADA System Efficiency

Automated monitoring processes improved task completion time by 30% using SCADA systems.



#### Automated Waste Collection

Improved waste collection efficiency by 35% with automated system design.

## SKILLS

PLC Programming

SCADA

HMI

industrial Automation

ETAP

MATLAB/Simulink

PCB design

Electrical maintenance

Teamwork

Hydropower Generation

Problem Solving

Analytical skill

## PROJECTS

### ATCSB - Waste Measurement

Smart Aqua Trash Collection And Segregation Boat project

- Automated Waste Collection System for Water Surface
- Smart waste segregation into different categories (Metal, Plastic, Organic waste)
- Electricity Generation from Dry Waste

