Mahipal Singh Rajpurohit

Contact | +91 8619066770 | mahipalsgh2003@gmail.com
Linkedin: linkedin.com/in/mahipalsgh

Introduction

Motivated and detail-oriented Electrical Engineering graduate with hands-on experience in PLC, HMI, and SCADA systems. Currently working as an Associate Engineer (Application) at JTEKT Electronics India, focusing on automation and traceability projects. Seeking opportunities to apply technical expertise, problem-solving skills, and IoT integration knowledge in industrial automation and embedded systems, while continuously developing toward high-value technical roles.

Education

College

Bachelor of Technology in Electrical Engineering ,	May 2025
Jodhpur Institute of Engineering & Technology , Jodhpur	CGPA: 8.5/10.0

School — St. Paul's Sr. Sec. School ,Pali

- Senior Secondary Education — 76.8% | Year 2020 - 2021
- Secondary Education — 81.60% | Year 2018 - 2019

Technical Skills

- **Embedded Systems & Automation :** PLC, SCADA, WinProladder, Arduino, MATLAB
- **Communication :** TCP/IP, Modbus, RS485, serial communication, MQTT
- **Programming Languages :** Python, C
- **Web Development :** React, HTML, CSS, JavaScript, MySQL, Mongodb, MariaDB, HeidiSQL

Trainings

JTEKT Electronics India – Gurgaon | Dec 2024 – Present

- Working on Industrial automation projects with PLC, HMI and SCADA Systems
- Supporting Traceability projects, including Ethernet cabling and industrial communication setup
- Collaborating with clients to troubleshoot, maintain automation solutions
- Gained exposure to wiring, cabling, and practical aspects of machine automation/ panel wiring

Summer Internship - Indian Institute of Technology, Roorkee (May 2024 - July 2024)

- Build Electrical Circuit Design Virtual Lab for IIT Roorkee
- Implemented core electrical knowledge, PLC into software technologies to build a real world application.
- Learned teamwork and project management

Summer Internship - Bharat Heavy Electrical Limited (BHEL), Bhopal (May 2023 - June 2023)

- Completed a comprehensive summer training program at BHEL, a prominent engineering and manufacturing enterprise in India
- Gained hands-on experience in the manufacturing processes of Electrical Machines
- Developed an understanding of large-scale manufacturing operations and workflows

Projects

- **Energy Management System with Data Logging**
  Designed and implemented an energy monitoring and data logging solution for industrial equipment to improve power utilization and efficiency using SJ Ether PLC and JSS SCADA
- **Automation of Solenoid Valve for Air Pressure Control**

Worked on automating solenoid valves to regulate air pressure in an industrial setup, integrating PLC for real-time control and monitoring.

- **Farm Analyzer (IoT Project)**
Built an IoT system using ESP32, SIM module, DHT11, and soil sensors to collect and display real-time farm conditions on Arduino Cloud.
- ASTHA-CHANGA - Indian Version of Ludo created using React
- Text to speech pronunciator, Weather detector using weather API