Mahadeep Singh

+91 7302458207 chauhanmahadeep20@gmail.com Mahadeep Chauhan — LinkedIn Github – Mahadeep

Education

Goverment Polytechnic Uttarkashi July 2022
Diploma in Electronics Engineerring (CGPA: 7.1/10.0) *Uttarkashi, Uttrakhand*

- **Relevant Coursework:** Microprocessor, PLC(Programmable Logic Controller) and Embedded System, Digital Electronics, Introduction to C. Optical fiber, Analog Electronics.

Experience

SLOG SOLUTION PVT. LTD. OCT 2023 – Current
TRAINEE *Dehradun, Uttarakhand*

- Developed and implemented IoT solutions for various projects during training at Slog Solution Private Ltd.
- Contributed to the design and development of a Line Follower Robot, integrating sensors and actuators for precise navigation.
- Gained hands-on experience in programming microcontrollers and PLCs to automate processes and enhance efficiency.

Bajaj Auto Ltd July 2022 – July 2023
Electronic Engineer *Pantnagar, Uttarakhand*

- Utilized PLC programming skills to automate production tasks and enhance productivity while adhering to safety protocols and industry regulations.
- Implemented preventive maintenance schedules for electronic equipment and machinery to prevent breakdowns and minimize disruptions to production schedules.
- Analyzed data from production line sensors and monitoring systems to identify trends, optimize performance, and reduce waste.

Projects

Bluetooth control car | *Arduino , Bluetooth Moudle , DC motors , Motor driver , Circuit components*

- Developed a Bluetooth-controlled car utilizing an HC-05 Bluetooth module, Arduino Uno microcontroller, and Arduino IDE programming.Designed and assembled the car chassis and integrated essential components including four DC motors and an L298 motor driver for efficient control.
- Implemented Arduino programming to enable seamless communication between the HC-05 module and the Arduino Uno, allowing for precise control and maneuverability.
- Utilized a 12V battery as the power source, ensuring sustained operation and mobility of the Bluetooth-controlled car..

PLC-Based Traffic Light Control System | *Siemens S7-200 PLC,Step-7 Microwin Software, Wiring Components, Power Supply*

- Designed and implemented a traffic light control system using sematic s7-200 PLC .Developed the logic for controlling the sequence of traffic lights based on predefined timing parameters.Integrated a reliable power supply and meticulously wired the components to guarantee stable operation and minimize downtime.
- Utilized step7 microwin programming software to create ladder logic diagrams to control the operation of the traffic lights.Integrated red, yellow, and green color bulbs as signaling devices, synchronized with the PLC program to emulate real-world traffic light operations accurately.

Temperature and Humidity Monitoring System | *Nodemcu (esp8266), DTH11, arduinoIDE, Power supply,*

- Programmed the NodeMCU board using Arduino IDE or other compatible programming environments to read sensor data. Established Wi-Fi connectivity to enable remote monitoring and data transmission to a cloud platform or local server. .
- Designed a user-friendly interface for accessing real-time temperature and humidity data via a web browser. Presented the project to demonstrate its applications in home automation, environmental monitoring, and IoT (Internet of Things) projects.

Technical Skills

Languages: C, HTML, CSS, Bootstrap, Python
Concepts: Electronics, IOT, PLCs, Embedded System, Robotics, Computer Networking