





# PRAFUL SHARMA

Bachelor of Technology  
(Electronics and Communication Engineering)  
2020 - 2024

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## EXPERIENCE

### GET (R&D) - MORPHEDO TECHNOLOGIES Pvt. Ltd.

May 2024-Present

- Designing and development of embedded systems.
- PCB designing.
- Circuit testing and debugging.
- Firmware development.

### INTERN - ELECTROCOUS SOLUTIONS

Aug 2023-Nov 2023

IoT(Internet of Things)

- Experience on 8 bit- Micro-controllers-ATMEGA, Arduino and ESP-32.
- Experience in design and development of embedded system, featuring (IoT).
- Networking.
- Sensors interfacing and automation control featuring IoT.
- Basic Electronics.
- I2C, RFIDs, USART/UART, SPI.

### 1 MONTH SUMMER TRAINING AT UPPCL,RAEBARELI.

July 2024

- Transformers
- Emulcifire

## PROJECTS

- **ESC Controller for BLDC Motor:** Designed and implemented an ESC controller for precise BLDC motor control, enhancing performance and efficiency for electric vehicles and drones.
- **EV Controller:** Designed a controller to drive a EV with its proper functionalities.
- **BMS(Battery Management System):** Led the development of a Battery Management System (BMS) with advanced monitoring and charging capabilities, improving battery efficiency and lifespan.
- **IoT-Based Smart Kitchen:** Developed an IoT system integrating sensors and microcontrollers for real-time monitoring and automation, enhancing safety with gas leakage detection.
- **IoT-Based Garbage Monitoring System:** Developed an IoT solution to monitor waste levels in real-time and send data to optimize collection schedules, ensuring timely cleaning by waste management vehicles.
- **Bluetooth and IoT Controlled RC Car:** Designed and built an RC car controllable via Bluetooth and IoT, enabling remote operation, real-time monitoring, and enhanced control features.
- **Attendance Monitoring System with Automatic Door Control:** Developed an attendance system integrated with automatic door opening and closing, enhancing security and streamlining entry management.

## TOOLS

- ISIS Proteus
- Cisco Packet Tracer
- ArduinoIDE
- VS Code
- STM32 CubeIDE
- Altium
- PyCharm
- Eagle

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## CERTIFICATIONS

- IoT(Internet of Things)
- Embedded for Beginners (NIELIT Calicut).
- UPPCL

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## PROGRAMMING LANGUAGES

- Embedded C
- Python

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## ADDITIONAL SKILLS

- Proficient in C/C++ programming for embedded systems.
  - Experienced with [specific microcontrollers, e.g., STM32,Bluepill,Arduino,ESP32].
  - Skilled in integrating hardware with software components.
  - Strong debugging skills using tool like oscilloscopes.
  - Experienced in writing and optimizing firmware.
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