

HITESH KUMAR PANDEY

Sonbhadra, Uttar Pradesh ■ +91 6387216393/8853275998 ■ hiteshkumpandey05122001@gmail.com

Skilled and motivated Embedded Developer with a proven track record of designing, developing, and implementing embedded systems solutions. Proficient in **embedded C programming**, with a strong foundation in **hardware design and troubleshooting**. Seeking to leverage expertise in embedded development to contribute effectively to innovative projects in a dynamic and collaborative environment.

EDUCATION:

- **B.Tech (Electrical Engineering)** from Prabhat Engineering Collage, Kanpur Dehat, Uttar Pradesh (AKTU) in **2023**.
- **Diploma (Instrumentation & control Engineering)** from Govt. Polytechnic Mainpuri in **2020**.
- **10th** from VIMC Robertsganj, Sonbhadra, Uttar Pradesh in **2016**.

SKILLS:

- **C Programming, Embedded C, Circuit Design, PCB Design.**
- Familiar with Software like **VS Code, Altium Designer, STM32 Cube IDE, e2 Studio, Keil uVision5, IAR Embedded Workbench, MQTTX, Docklight** etc.
- Good understanding about **analog & digital electronics circuits**.
- **Integration with Software & hardware.**
- Work experience with various types of power topologies like **Flyback Converter, Double Switch Forward Converter & LLC Resonant Half Bridge Converter**.
- **Improving quality, Productivity, Reliability of Product with continual improvement.**
- **Ability to self-manage, multi-task & learn new skills quickly.**
- **Leadership, Team building, Problem solving, Decision making, Creative thinking & Positive attitude.**

WORK EXPERIENCE:

- **Tech Green Innovations, Janakpuri District Center, New Delhi** **January 2024 to Present__**
Embedded Engineer
 - Responsible for complete product **design & development**.
 - Working on **circuit design, Microcontroller Programming, Debugging, Troubleshooting, Testing & Validation of Product**.
- **Statcon Powtech pvt. Ltd. Noida** **May 2023 to December 2024**
Junior Engineer (Design & Development)
 - Responsible for **monitoring & tech support** for **SMPS, Inverters & GPRS Module**.
 - Working on **FMEA (Failure Mode & Effect Analysis), Troubleshooting & Quality of products**.
 - Responsible for **Circuit Design, Modification & documentation**.

PROJECTS:

- **EV Chargers & EVSE:**
I have designed **350W, 600W, 850W, 1KW, 1.2KW, & 1.5KW EV Chargers (Still working on CAN Protocol)** and **3.3Kwh & 7.4Kwh EVSEs** which have **inbuild options of OCPP, RFID** etc. I was responsible for **complete product development**. Worked on **Circuit Design, PCB Design & Firmware development**.
- **Controller for Linear Heat Detection Cable (Digital & Analog):**
In this project, I was responsible for **complete product development**. Digital LHDC Controller is used to identify distance of fire point in Digital cable. Analog LHDC controller is used to indicate fire alarm on multiple temperature pointes. Both projects were based on **STM32C031C6T6** microcontroller.
- **Voice Recorder for DMRC:**
This was a prototype of voice recorder for DMRC (**First save .wav file in USB & then send .wav file on server by using TCP/IP**). I was responsible for **Coding, Debugging & Testing of prototype**. This project is based on **RA6M3 (RANESAS)** microcontroller.

- **Smoke Detectors (Standalone & Slave module):**

In this project, I was responsible for **Circuit Design, Debugging & Testing**. This project is based on ABOV (A96L623AEN) microcontroller.

- **Digital Locker:**

In this project, I was responsible for **complete product development**. This project is based on STM32C031C6T6 microcontroller.

- **Car Parking Counter:**

In this project, I was responsible for **Coding, Debugging & Testing**. In this project, controller counts how much cars comes & goes from parking (**sends data on serial ports**). This project is based on STM32F030C8Tx microcontroller.

- **Stepper motor controller:**

This was a prototype of stepper motor controller. In which stepper motor is controlled by remote. This is based on Arduino uno. I was responsible for **coding, debugging & Testing**.

- **DC to DC converter (48v to 12v/10 Amp):**

In this project, I was responsible for **reverse engineering & testing** of converter.

- **Fire Alarm Panel:**

This Panel is used for smoke detectors (Slave Module). I was responsible for **Coding, Circuit Design, Debugging & Testing**. This project is based on STM32C031C6T6 microcontroller.

- **Overvoltage Protection Circuit:**

This Circuit uses in overvoltage protection of battery from higher voltage solar inverter. I was responsible for **Circuit design & testing**.

- **Collage Projects:**

- **Design an inverter** (12volt DC to 220volt AC/50hz) by using CD4047 IC, IRFZ44 power MOSFETs & 12-0-12/1 Amp secondary transformer.
- **Design an Audio amplifier** by using LA4440 IC.
- **Design a SMPS based 12v charger** by using UC3845 IC based on flyback converter (76 kHz).

PERSONAL DETAILS:

- **Father Name:-** Mr. Shiv Prasad Dev Pandey
- **Date of Birth:-** 05 December 2001
- **Gender:-** Male
- **Permanent Address:-** Lashra, Akchhor, Robertesganj, Sonbhadra, Uttar Pradesh (231216)

DECLARATION:

I hereby declare that above information given is true to the best of my knowledge, if given an opportunity I will do my best for the concern.

HITESH KUMAR PANDEY