

GHANSHYAM PATIDAR

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CAREER OBJECTIVE

Enthusiastic and detail-oriented Electronics and Telecommunication engineering student with hands-on experience in embedded systems, microcontroller programming, and real-time application development. Seeking an Embedded Systems role to apply my skills in C/C++,Python and hardware integration for innovative product development.

EDUCATION

Madhav Institute of Technology and Science
B.Tech In Electronics and Telecommunication (CGPA- 8.33)

Gwalior,Madhya Pradesh
Aug- 2020 –July 2024

Jawahar Navodaya Vidyalaya
12th - (percentage- 71.40)

Neemuch,Madhya Pradesh
2019

Jawahar Navodaya Vidyalaya
10th - (CGPA- 8.80)

Neemuch,Madhya Pradesh
2017

TECHNICAL SKILLS

Languages : C/C++, Embedded C, Basic Python.

Tech.Knowledge : ARM7(Lpc2129,Lpc2148), Esp32-S3, 8051 Micro Controller, Zephyr RTOS, Linux, OOPs, Data Structures.

Protocols : UART, I2C , SPI, CAN .

Tools : Vscode, Keil uVision4, Proteus.

EXPERIENCE

1. Delta IoT Solutions

[Duration- Ongoing]

(Embedded System Engineer)

Worked on the ESP32-S3 microcontroller using the Zephyr real-time operating system (RTOS) and Visual Studio Code. I created programs that interact with sensors and other hardware parts. I also learned how to run multiple tasks at the same time and manage memory efficiently using Zephyr.

2. Vector India Pvt. Ltd

[sep 2024 - may 2025]

(Embedded System Trainee)

Completed training at Vector India Pvt Ltd with a focus on embedded systems and real-time application development. Trained in embedded system architecture, firmware development, and real-time applications. Worked with microcontrollers (8051, ARM7), interfaced hardware components, and developed embedded C/C++ applications.

PROJECTS

1. Data-driven vehicle control using CAN protocol

[Source Code](#)

- Developed a real-time embedded system for vehicle control using CAN protocol, integrating multiple functional nodes like temperature monitoring, reverse alert, and window glass control.
- Utilized LPC2129 microcontroller and peripherals such as DS18B20 (temperature sensor), GP2D12 (proximity sensor), and external interrupts to achieve accurate sensor data acquisition and control.
- Programmed in Embedded C using Keil uVision and Flash Magic, implementing modular code for sensor interfacing, interrupt handling, and communication.

2. Medicine Reminder System

[Source Code](#)

- Purpose: Develop a medicine reminder system that ensures users take medicines on time through customizable schedules and alerts.
- Core Features: Display real-time clock (RTC) data (date and time) on an LCD, Enable RTC settings adjustments using a 4x4 matrix keypad. Allow users to set and manage multiple medicine schedules.
- Alert Mechanism: Provide timely alerts using switches and a buzzer when the current time matches any scheduled medicine time.

3. Train Ticket Booking App

[Source Code](#)

- Developed a Train Ticket Booking App with features like Sign-in/Sign-up, ticket booking, cancellation, train availability checking, and user-friendly menu, utilizing C programming and file handling techniques.
- Implemented dynamic memory allocation using structure pointers and Singly Linked Lists (SLL) to manage train and passenger data effectively.
- Enhanced usability and modularity by creating user-defined functions for each task, using union, typedefs, and separate header files for better project structure.

4. Bank and Shopping Application

[Source Code](#)

- Designed and implemented a Bank and Shopping Application in C++ with functionalities like deposit, withdrawal, balance inquiry, and shopping cart management, showcasing modular and object-oriented programming skills.
- Integrated advanced features like 'Pay Bill' as a friend function, enabling seamless interaction between the Bank and Shopping Application while ensuring password verification for secure transactions.
- Emphasized data security and validation by incorporating features like password authentication and secure billing for reliable user operations.

CERTIFICATIONS

- [Problem Solving Assessment By HackerRank](#)
- [TCS Codevita season 11 Rank Certificate](#)
- [Spark 2021 With Yoga Magics by Holistic Club](#)

EXTRA-CURRICULAR ACTIVITIES

- Participate in Emerging Technology Quiz competition-a National level quiz-competition organized by IETE student section MITS.
- Core Team Member Of Fitness Club MITS

HOBBIES

- Exploring New Technologies
- Board Games
- Playing Cricket