

# SHREYASH SHIRSATH

Trained Embedded Engineer

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## Objective

- To work in a professional environment where I can utilize and apply my knowledge and skills which enables me to learn new things along with fulfilling organizational goals.
- Proficient in designing, developing, and optimizing embedded systems with expertise in microcontrollers and real-time operating systems (RTOS).
- Skilled in programming languages such as C, C++, and Python for firmware development and hardware-software integration.

## Relevant Coursework

- Programming Languages
- Embedded Systems
- Micro controller
- Hardware Software Integration
- Protocols
- RTOS
- Software Tools
- Electronics And Circuit

## Training

### Vector India Private Limited

May 2024 – Dec 2024

*Trainee Engineer*

*Bangalore, karnataka*

- In This Training, I learnt Advanced Embedded System concepts. I Worked on Different Embedded system projects.
- Programming Languages: C, C++ for embedded application development.
- Microcontroller: ARM7 architecture, understanding its features and programming.
- Scripting: Basic Python programming for quick prototyping and utility scripts.

## Projects

### Vehicle Control System Using CAN Protocol | C, Protocols

- Designed and implemented a vehicle Control System utilizing the CAN(Controller Area Network) protocol..
- Developed functionality to display real-time vehicle data. Integrated dashboard(LCD Display) with vehicle systems for seamless communication.
- Demonstrated ability to work with CAN protocol and automotive electronics.

### Smartphone-Based Home Automation

- This project was implemented using the UART protocol to control the home appliances using a smartphone application. We can send the commands to the microcontroller from the smartphone via an application called Bluetooth terminal and the microcontroller will act according to the commands.

### Smart Voting System

- Developed a secure electronic voting system using a fingerprint sensor, a camera, and Raspberry Pi
- Implemented real-time face recognition and fingerprint verification for accurate voter identification.
- Ensured data privacy by encrypting voter information and storing it securely.
- Reduced fraudulent activities by incorporating two-factor authentication.

### Student Record Using Data Structure in C

- Sorting the Students data and perform operation like search, modify, sort the student data in C Programming

## Technical Skills

**Languages:** C,C++,Embedded C,Python, shell

**Developer Tools:** GCC compiler, Keil Ide, Ubuntu, Flash Magic

**Operating Systems:** Linux, RTOS,Windows

**Protocols:** CAN,SPI,I2C,UART

**Embedded Systems:** ARM7[LPC2129], 8051

## Education

**D Y Patil College Of Engineering,Akurdi**

*Bachelor of Engineering- 8.3 CGPA*

**2019 - 2023**

*Pune, Maharashtra*