

HARISH P CHOPADE



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❖ SKILLS

Technical skills:

- Embedded C programming
- C programming
- Microcontroller
- Communication Protocols (UART,SPI,I2C,CAN)
- Linux
- Shell scripting
- RTOS, GPIO
- TCP/IP Protocol.

❖ Hands on experience:

- PIC18F4580(uC),
MPLAB X IDE,
XC8 Compiler,
Linux (Ubuntu),
Microsoft Excel.

❖ EDUCATION

B.E. in Electronics and Communication (2019-2023),Jain College of Engineering, Belgaum.
CGPA – 7.9

PUC (2017-2019),
GSS PU College, Belgaum.
Percentage – 66%

SSLC (2016-2017)
G S D High School, Idalhond.
Percentage – 86.72%

Languages

English, Hindi, Marathi, Kannada.

❖ Objective

A proactive **Embedded Software Engineer** with **one year of experience in the aerospace and military sectors**, specializing in IoT solutions and firmware development. Eager to leverage technical expertise and a passion for innovation in collaborative projects within the industry.

❖ Working Experience

Embedded Trainee (July 2023 to March 2024)

- Hands-on experience with PIC18F4580 microcontroller using MPLAB X IDE and XC8 compiler.
- Practical experience working with communication protocols including UART, SPI, I2C, and CAN.
- Proficient in C and Embedded C programming for microcontroller-based applications.
- Basic knowledge of RTOS, GPIO, and TCP/IP protocols.

Embedded/ Electronic Engineer (June -2024 Present)

Hands-on experience as a **Development Engineer** in the **aerospace and military** industry.

- Currently working on new development boards for the AMETEK client to ensure successful production line deployment.
- Excellent at reviewing **PCB schematics** and **Gerber files**.
- Proficient in **Ubuntu** operating system, and **ViewMate** software.
- Excellent **communication, collaboration, and interpersonal skills** with a strong work ethic.
- Highly **productive, self-motivated, result-driven**, and committed to delivering quality work both individually and as part of a team.

❖ Projects

1. STEGANOGRAPHY

Practice on November 2023(Embedded c Project)

- Steganography is the process of hiding the data within files, messages, images, or videos by embedding it within another file.
- This project is entirely software-based, employing various C functions to execute its operations.

2. CAR BLACK BOX

Practice on February 2024(Microcontroller Project)

- In this project, I implemented a car dashboard that includes features such as displaying the car speed, time, and gear shift status. To achieve this, I utilized a character LCD (CLCD) display. The Real-Time Clock (RTC) was employed to accurately display the time, while gear shifting is facilitated through the use of switches. Additionally, speed variation is controlled by a potentiometer connected to an Analog-to-Digital Converter (ADC). To ensure persistent storage of this information, I utilized EEPROM.
- To achieve this entire process, I utilized the PIC18F4580 microcontroller. In terms of communication protocols, the UART protocol was employed to transmit real-time information to Tera-Term for display. Additionally, the I2C protocol facilitated communication between the microcontroller and the RTC.

3. SOLAR PANEL CLEANING MACHINE FOR POWER STATIONS WITH IOT MONITORING

Practice on March 2023

- The most important component of these systems is the solar panel, which converts solar energy into electricity. This is one of the simplest methods for generating electricity.
- Using this project we can increase solar efficiency by up to 25-30%.

4. DENSITY BASED TRAFFIC LIGHT SIGNAL CONTROLLER USING ARDUINO

- In this project, I utilized an Arduino Mega to interface with an ultrasonic sensor (HC-SR04) for distance measurement. The sensor detects the presence of vehicles, allowing the system to control traffic signals accordingly.

- For writing and compiling the code, I employed Arduino IDE.

❖ Certification

Emertxe Information Technology, Bangalore, July to March 2024.

❖ Internship

FT industry Design solution and Software Development industry ,July-September 2022.