

Mr. Pushkar Mondhe

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Career Objective

Seeking a position as a Embedded Firmware Engineer where my skills and experience can be effectively utilized to contribute to the successful completion of challenging embedded systems projects. Eager to provide technical leadership, creativity, and sound technical judgment while ensuring high-quality, efficient firmware development and integration.

Professional Summary

- Gained 1 year of practical experience in designing, developing, and debugging embedded system firmware.
- Hands-on experience in developing and optimizing embedded systems using STM32 and ESP32 microcontrollers.
- Strong experience in developing embedded systems using STM32 microcontrollers, specializing in Real-Time Clock (RTC), Analog-to-Digital Conversion (ADC), UART communication, and timer-based applications.
- Adequate Knowledge and hands on experience in protocols like UART, I2C, SPI.
- Responsible, Flexible, Motivated, Analytical, Interpersonal, team player and capable of handling task independently.
- Skilled in using Arduino IDE, ESP-IDF, and STM32CubeIDE for firmware development, debugging, and deployment.
- Enabled ST7789V Display for advanced requirements for Breathalyzer.
- Utilized UART for real-time data logging and communication between the microcontroller and external devices.
- A self-motivated and results-driven professional with a proven ability to handle tasks independently or collaborate effectively as part of a team. Flexible and adaptable to new challenges, with strong analytical and interpersonal skills.
- Quick adaptability to new technologies and meets new requirements successfully and Strong problems solving skills.

Work Experience

- Currently working as a Embedded Firmware Developer With 1 Year Experience at AlcoBrake pvt.Ltd From March 2024 to Till Date.

Technical Skills:

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|-------------------------|-------------------------------|
| ● Programming Languages | : C, Embedded C |
| ● Operating Systems | : Windows, Linux(Ubuntu) |
| ● Microcontrollers | : LPC2129,LPC2148,STM32,ESP32 |
| ● IDE | : Keli, STM32CubeIDE |
| ● Protocol | : UART, I2C ,SPI |

Projects:

PROJECT 1: Breathe Interlock Device.

ROLES & RESPONSIBILITIES:

Junior Developer

Developing protocols developed like uart, i2c and spi.

Testing the power supply points in pcbs.

Verifying and modifying the bugs and debugs in protocols.

DESCRIPTION :

Objective of this device is to using breathe pressure find alcohol percentage of driving person and allowing to start vehicle to prevent accidents.

PROJECT 2: IOT For Road Safety Alcohol Detection For Buses and Trucks.

ROLES & REESPONSIBILITIES:

Junior developer

Developing protocols developed like uart, spi and i2c.

Testing the power supply points in pcbs.

Verifying and modifying the bugs and debugs in protocols.

DESCRIPTION :

objective of this device is to using breathe pressure find alcohol percentage of of a human send results to mobile application using Bluetooth and-also sending logs to server using wifi and 4G/5G networks.

Vector Project

PROJECT TITLE : Vehicle Control System Implementation Using CAN protocol.

The main aim of this project is to display the engine temperature along with alert message, reverse alert and control the door glass windows using CAN protocol. In this project I use LPC2129 Microcontroller ,CAN Transceiver(MCP2551),Leds,Lcd,GP2D12,Potentiometer LM35 Temperature Sensor.

Project Link: <https://github.com/pushkarmondhe/CAN-PROTOCOL>

TRAINING & CERTIFICATION

- Advance Course in Embedded system at Vector India Pvt Ltd, Hyderabad.

[VIEW CERTIFICATE](#)

Academic Credentials

- B.E in Electronics and Telecommunication Engineering from Sipna college of engineering and technology, Amravati University (2023).
- Higher Secondary School Examination (H.S.C) from Maharashtra State. Board of Secondary Education, Amravati (2019).
- Secondary School Certification Examination (S.S.C) from Maharashtra State Board of Secondary Education, Amravati (2017).

Personal Information

- Date of Birth: 08 April 2001
- Gender: Male
- Marital Status: Unmarried
- Languages Known: English ,Hindi, ,Marathi.
- Nationality: Indian

Declaration

I hereby declare that all the above information is true and correct to the best of my knowledge.

Date: -

Place: - Hyderabad

(Pushkar Avinash Mondhe)