

## FAIZANAHMED M ARKATI

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### OBJECTIVE

Seeking a position in the field of embedded industry that provides me simple opportunity to showcase my skills, enhance my knowledge and to explore & excel in my profession and contribute to the growth of the organization.

### EDUCATION

<b>Angadi Institute of Technology and Management, Belagavi   VTU University</b>	<b>Karnataka</b>
B.E in Electronics and Communication Engineering	2020-2024
CGPA: 6.8/10	
<b>Bharatesh PU College Belagavi</b>	<b>Karnataka</b>
Science   PCMC	2017-2019
Percentage: 61.16%	
<b>Islamiya Comp Junior College Belagavi</b>	<b>Karnataka</b>
Percentage: 71.20%	2016-2017

### TECHNICAL SKILLS

- **Programming Languages:** C, C++, Embedded-C , DS, TCP/IP.
- **Operating Systems:** Ubuntu (Linux).
- **Controllers/Processors:** ARM7-LPC2129.
- **Software Tools:** Keil, Flash Magic, Proteus.
- **Communication Protocols:** UART, SPI, I2C, CAN.

### INTERNSHIP

<b>Engineer Intern  Varcons Technologies Bangalore</b>	<b>Aug 2023 – Sept 2023</b>
Full stack Web Development	

### EXPERIENCE

#### Vector India – Institute for Embedded System

- Currently undergoing hands-on technical training program in **Advanced Embedded Systems** course.

### PROJECTS

#### 1. RFID Based Smart Bus Ticketing System:

**Description:** The RFID-based Bus Ticketing System is a modern solution that streamlines public transportation fare collection using RFID technology. Passengers use RFID cards to scan and board buses, with the system automatically verifying their balance and deducting the appropriate fare.

**Technologies Used:** Arduino Uno/ESP8266, RC522 RFID Reader, 16\*2 LCD, Buzzer.

**Learning outcomes:** Gained hands-on experience with Arduino and understood how to interface RFID readers, LCD displays and buzzer and importance of smart system in public transport.

## **2. Emotion Detection Using Machine Learning:**

**Description:** Emotion detection using machine learning is a technology that enables computers to recognize and interpret human emotions through various inputs such as facial expressions, speech, text, or physiological signals. By applying machine learning algorithms, the system analyzes patterns in emotional data and classifies emotions like happiness, sadness, anger, and surprise.

**Technologies Used:** OpenCV, Haarcascade, Django(web framework), HTML, CSS.

**Learning outcomes:** Learned how emotion data is labeled in text, speech or facial expressions and understand the implementation of emotion detection in real- world applications.

## **3. Real-Time Automotive Dashboard Development using CAN Protocol:**

**Description:** This system uses CAN protocol that reads live vehicle data such as speed, RPM, temperature, fuel level and door status and decodes this data and display it in real time.

**Communication Protocols:** CAN, ADC, UART.

**Microcontroller:** LPC2129.

**Learning outcomes:** Understood about CAN architecture, physical and data link layers, arbitration, error detection and frame formats.

## **MINI PROJECTS:**

1. Bluetooth-Based Home Automation Using UART Protocol.
2. Student Database System using C and Data Structures.

## **PERSONAL DETAILS**

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- Date of Birth : 21/12/2001
- Languages Known : English, Hindi, Kannada
- Nationality : Indian
- Hobbies : Playing cricket, watching movies, Traveling