

Syed Affan Mubeen

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Career Objective:

An Embedded Systems Engineer with expertise in software development and hardware integration, specializing in automotive and industrial applications. Experienced in microcontroller programming, embedded systems, and real-time data monitoring, with a focus on optimization and innovation in dynamic, collaborative environments.

Technical Skills

- ❖ **Programming:** Shell Scripting, C, C++(OPP), Data Structures
 - ❖ **Embedded Controllers:** Arduino Uno, ESP32, PIC16F877A
 - ❖ **Protocols & Communication:** UART, SPI, I2C, RS232, Wi-Fi (ESP32)
 - ❖ **Development Tools:** MPLAB X IDE, Arduino IDE, Keil uVision, VIM, GCC, XC8
 - ❖ **Cloud Integration:** InfluxDB, Grafana
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Experience

Engineer Trainee

Stalwart Innovations Pvt Ltd, Bangalore | May 2024 – Present

- Contributed to developing embedded solutions for automotive applications, specifically focusing on real-time automation and system optimization.
 - Engineered a “Car Parking/Obstacle Detection System (ADAS)” using “HC-SR04 ultrasonic sensors” and “Arduino Uno” for parking safety.
 - Integrated real-time sensor feedback systems, providing visual (LCD) and auditory (buzzer) alerts to enhance driver awareness and safety.
 - Collaborated with cross-functional teams to optimize hardware and software integration for improved system reliability.
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Projects

★ Car Parking/Obstacle Detection System(ADAS)

- Developed a proximity detection system with HC-SR04 ultrasonic sensors and Arduino Uno, offering real-time alerts and automatic braking for parking safety.
- Incorporated visual(LCD) and auditory(buzzers) feedback for driver awareness in tight spaces.

★ Cold Storage Temperature Monitoring System

- Built an IoT-based system using ESP32 and LM35 sensors for real-time temperature monitoring, integrated with InfluxDB Cloud for remote access and predictive maintenance.

★ Automated Conveyor Belt System

- Designed and implemented an automated conveyor belt system, optimizing system efficiency with sensor feedback and automation.

Education

Bachelor of Engineering (B.E.) in Mechanical Engineering

Visvesvaraya Technological University, Belgaum | **Graduated:** 2023

CGPA: 6.12

CERTIFICATIONS

Emertxe Certified Embedded Professional (ECEP)

Emertxe | **Date of Certification:** September/2024

https://certificate.emertxe.com/?id=23026_373