AANANDHAJOTHI V

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OBJECTIVE:

Highly motivated and experienced embedded systems engineer with a strong background in C programming, microcontrollers, and software development. Proven track record of delivering high-quality projects on time, with a focus on innovation and efficiency. Skilled in problem-solving, team collaboration, and technical leadership.

CAREER PROFILE:

PUMO TECHNOVATION INDIA Pvt. Ltd,..
EMBEDDED DEVELOPER

- Embedded C programming Language.
- Designing and developing Embedded software and hardware solution.
- Troubleshooting and debugging embedded system, resolving issues related to hardware, software and communication protocols.
- Developed for **8051, PIC16F877A** microcontrollers, ensuring efficient and reliable operation.
- Conducted hardware interfacing for various sensors, displays, and wireless modules to meet project requirements.
- Designed and optimized communication protocols, including **I2C, SPI** and **USART** for seamless data exchange in embedded system.
- **Development tools**: MP-LAP IDE, KEIL, CODEBLOCKS, PROTEUS.

PROJECT :

- **Smart Lock System Based IOT**

Goal:

- The primary goal of a smart lock system using NodeMCU ESP8266-based IoT is to provide secure, convenient and remotely controllable access to a door or area, enabling features like keyless entry, remote locking and potentially integration with other smart home systems.
- This project is to develop a secure, remotely accessible, and automated door locking system using RFID authentication and IoT integration.

- **IOT Base Home Automation**

Goal:

- The system allows users to control home appliances like lights and fans remotely using a mobile app. It consists of NodeMCU microcontrollers connected to relays and sensors to control devices. The app communicates with these controllers over the internet to automate tasks based on time or sensor triggers.

- **Smart Blind Stick With Object Recognition Using ESP32-CAM And ESP8266**

Goal:

- The smart blind stick detects obstacles using HC-SR04 ultrasonic sensors and ESP8266 microcontrollers. Triggers audio and visual alerts via a buzzer and LED. ESP32-CAM Captures images for object recognition and transmits results to Firebase.
- Tansmits classification results to Firebase Realtime Database over Wi-Fi. A mobile app uses a MIT App with Text-to-Speech functionality to inform users about detected objects.

INTERNSHIPS:

- **Polenza tech solutions, Chennai-600 045.** **(2024)**

I had been studied about basic Raspberry Pi Pico W and Raspberry Pi using IOT.

- **Pantech elearning, Chennai-600 045.**

I had been learned about the different types of sensors using arduino software such as fire sensor, soil moisture sensor, rain sensor, water level monitoring sensor, Bluetooth sensor and also more number of realtime tasks using these sensors**.**

SKILL BASED COURSE:

- IOT
- Embedded system
- CISCO

EDUCATION SUMMARY:

- B.E. in Electronics and Communication Engineering, **(2021-2025)**
  Adhiparasakthi College of Engineering, Ranipettai District,
  Affiliated to **Anna University** and obtained **83%**.
- HSC Completed in Government Girls Higher Secondary School, Thimiri and obtained **79%.** **(2020-2021)**
- SSLC Completed in Government Girls Higher Secondary School, Thimiri and obtained **69%.** **(2018-2019)**

ADDITIONAL INFORMATION:

- **Technical skill:** C programming, Embedded C, Arduino IDE, Basic python
- **Soft skill:** strong communication and teamwork skills, with experience working in collaborative environment, critical thinking and problem solving.

PERSONAL DETAILS:

Name	:	Aanandhajothi V
Father Name	:	Vengatajalam D
Date of Birth	:	03-01-2004
Sex	:	Female
Blood Group	:	A +ve
Languages known	:	Tamil and English
Marital Status	:	Single
Nationality	:	Indian

DECLARATION:

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

Date :

Place : Ranipettai (Aanandhajothi V)