ADHAVAN M

MSc Electronics

Contact no: 9629405800

adhavan0908@gmail.com

Pattukottai-Tamil Nadu

OBJECTIVE

Embedded Systems Engineer with expertise in microcontroller programming STM32, Raspberry Pi, ESP32 and IoT-based automation. Skilled in hardware-software integration, signal processing, and system optimization, seeking to contribute to innovative embedded technology solutions.

EDUCATIONAL QUALIFICATION

M.Sc. Electronics 2023–2025
St. Joseph's College (Autonomous), Tiruchirappalli **CGPA**: 8.00
University: Bharathidasan University

B.Sc. Electronics 2018–2021
St. Joseph's College (Autonomous), Tiruchirappalli **CGPA**: 7.00
University: Bharathidasan University

HSC
Brindavan Higher Secondary School, Pattukkottai 2016–2018
Board: State Board **Percentage**: 66%

SSLC
St. Thomas Higher Secondary School, Pattukkottai 2015–2016
Board: State Board **Percentage**: 81%

TECHNICAL SKILL

Programming languages **:** Embedded C
Known controller **:** PIC16F,18F, Arduino, Esp32.Esp8266, Raspberry pi, STM32
Tools **:** MPLAB IDE, Proteus, MATLAB, LabVIEW, Thonny, Knime
Functional Area **:** Embedded developer & Maintenance

ACADEMIC PROJECTS

Wireless power transfer

Duration:11/2020 to 02/2021

Description: The basic working principle of inductive WPT charging is that there are two parts of the inductor. The high frequency AC is transmitted from the charger to the secondary side and then converted to DC power and it's supplied to the battery.

Gesture Control System using ESP32-CAM

Duration:09/2024 to 02/2025

Description: Developed a contactless control system that detects and interprets hand gestures using the ESP32-CAM module. Enabled wireless device control through real-time image processing and gesture recognition, enhancing accessibility and smart automation.

INTERNSHIP

- **Vasantha Advanced systems Pvt ltd**. Duration: (09-05-2024 to 11-06-2024)
- Developed and debugged embedded firmware in C for STM32 microcontrollers (STM32F103C8T6 and STM32L451RCT6) on HPCL controller boards, enhancing real-time system performance.
- Gained hands-on experience in peripheral interfacing, low-level debugging, and embedded system design using STM32 development environments.

CERTIFICATIONS

- Certification of "Diploma in computerized Android & iPhone servicing, hardware and software".
- Certification of "JOSELEX" 2020 inter collegiate technical symposium.
- Certification of Internship.
- Certification of "EMBEDDED SYSTEM "

LANGUAGES

- Tamil
- English

DECLARATION

I hereby declare that the above-mentioned particulars are true to the best of my knowledge and belief.

YOURS SINCERELY

ADHAVAN M