SRIDHAR M

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Github:https://github.com/sridhar1229

Technical skills

Languages : C, C++, Python,HTML(basics),Verilog

Controllers: Arduino,Pic,ESP32&ESP8266

Kernal: Ubuntu

Iot protocols: Mqtt(mosquitto,shiftr),GSM, LoRa

Communication protocol :UART/USART,I2C

Tools: Mplab,Proteus,Keil Vision,LT Spice, Xlinix,EasyDA

Responsibilities

Developed and Calibrated Autonomous Control Systems: Designed control algorithms and integrated hardware components, ensuring system functionality and efficiency.

Led Comprehensive Testing and Optimization: Conducted functional, regression, and performance testing to enhance reliability and optimized system performance through iterative testing and refinement.

Collaborated for Efficient Issue Resolution: Worked with cross-functional teams to identify, document, and resolve issues, maintaining detailed records of testing methodologies and performance outcomes

Education

B.E (ECE)

2021-2025 with **75 %**, Thanthai Periyar Government Institute of Technology,Vellore, Tamil Nadu, India

HSC

2020-2021 with **92%** Shri Vidhya Bharathi Higher Secondary School, Namakkal, Tamil Nadu, India

S.S.L.C

2020 with **88 %,** SPM Higher Secondary School, Namakkal, Tamil Nadu, India

Internships

3-month of Intern at **Blackfox Embedded Solutions**, Erode - 638001 from May 2024 to August 2024

As a **Firmware Trainee** Intern at Blackfox Embedded Solutions, I developed **MQTT-based communication modules with GSM integration for SMS and calls in IoT devices,** optimizing firmware for reliable, real-time data updates.

Projects

Project 1: Bluetooth Car with Metal Detector

Year: 2022

Developed a mobile-controlled car using the Blynk app integrated with a metal detector.

Responsibilities included firmware development, Bluetooth communication, user interface design, system testing, and performance optimization.

Project 2: Garbage Detection and Bin Level Indication

Year: 2023

Designed a smart waste management system utilizing AI for waste classification.

Monitored bin levels with ESP32, sending real-time data to a web server.

Sub-Project: Material Positioning using IR Sensor

Year: 2024

Developed and calibrated IR sensors for accurate object positioning.

Integrated ESP32 for real-time monitoring and control.

Project 3: Autonomous Robot with Handshake, Object Avoidance, and Event Display

Year: 2024

Created an autonomous robot with gesture recognition and object avoidance features.

Developed a real-time event display using a Raspberry Pi.

Certificates

Pic training certificate by argyn

Sympo participation certificate

Codewiz participation certificate