

GIRIDHAR GUGULOTH

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Place: SR NAGAR, HYDERABAD.

OBJECTIVE

Embedded Engineer one Year of experience in firmware development for microcontrollers such as LPC2148 and ESP32, specializing in low-level programming for efficient and reliable embedded systems.

SKILLS

Languages : C programming, Embedded C
Microcontrollers : ESP32, LPC2129/48
Protocols : UART, I2C, CAN
Software : ESP32IDF, ARDIUNO IDE, KEIL

EDUCATION

Bachelor of Technology (B.Tech), Electrical and Electronics Engineering
Malla Reddy Institute of Engineering and Technology, Hyderabad (2018-2022)
CGPA: 6.67/10

PROFESSIONAL EXPERIENCE (1 YEAR)

Designation: Trainee Engineer,

Company: Vinci Global Pvt Ltd, Hyderabad.

- Worked on I2C, UART, CAN protocol
- Developed firmware for PCF8563 RTC module and LDR sensor, displaying readings on a 16x2 LCD.
- Contributed testing and repairs of streetlight automation control units.
- Designed circuit using EASYEDA.
- Gathered and documented issue data from field employees.
- Worked as a Testing Engineer to Update Bluetooth Functionality in CCMS boxes.
- Acquired knowledge of the RS232 communication protocol and SMPS testing.

PROJECT

CCMS (Centralized control and monitoring system)

Developed a centralized control and monitoring system for city illumination, enabling control and monitoring from centralized location. The IOT-based CCMS devices provide real-time remote monitoring.

Team :6 members

Responsibilities:

- Developed firmware for the PCF8563 module using ESP32.
- Conducted testing and validation of I2C protocol for PCF8563.
- Developed meter response functionality for control unit.

Real time parameter Monitoring Dashboard for Electric Vehicles (CAN BUS TECHNOLOGY)

Developed a dashboard system for electric vehicles that utilizes CAN bus protocol to monitor key parameters such as temperature and battery/fuel levels. The system displays real-time data on the dashboard, enhancing vehicle performance and safety.

Team:6 members

Responsibilities

Participated in requirements analysis, design and development of the system.

Developed firmware using Keil for the LPC2129 microcontroller to manage CAN bus communication and data processing.

LANGUAGES

English	: Speak	Read	write
Hindi	: Speak	Read	
Telugu	: Speak	Read	write