Kommanapalli yeswanth ganesh

Embedded Systems Enthusiast

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PROFESSIONAL SUMMARY

Final-year B.Tech ECE student with hands-on experience in embedded systems, IoT, and Linux environments. Skilled in C, C++, Python, and Linux-based microcontroller development. Passionate about system-level programming, sensor interfacing, and building scalable embedded solutions. Actively seeking opportunities to apply my skills in real-world industrial and open-source environments.

EDUCATION

Aditya college of engineering and technology,Surampalem-*2022-2026*

B.Tech in Electronics and Communication Engineering - CGPA: 6.75

Aditya Junior College, Kakinada-2020-2022

Intermediate in MPC - CGPA: 6.90

EXPERIENCE

Smart College Temperature Monitoring System - project

Designed and implemented a smart temperature and humidity monitoring system using Arduino and DHT11 sensor. The system displays real-time environmental data on an LCD and provides basic alert notifications. This project improved my embedded C coding, sensor interfacing, and circuit debugging skills in a real-world setup.

Embedded Internship – T-Hub Summer intern

Completed a hands-on internship focusing on embedded systems development, including sensor interfacing, microcontroller programming, and circuit simulation. Worked on practical tasks involving Arduino, ESP32, and IoT modules, and collaborated with mentors to build and debug prototype systems.

PROJECTS

LDR-Based Automatic Lighting System

Built an automatic lighting solution using Arduino that adjusts lights based on ambient light levels detected through an LDR sensor. Gained experience with analog input reading, conditional logic in embedded C, and breadboard prototyping.

Secure Digital Door Lock System (Keypad-Based Access Control)

Developed a digital door lock system using Arduino, a 4x4 keypad, and a servo motor to control physical access based on user-defined PIN authentication. Programmed interrupt-driven logic in Embedded C for real-time input capture and servo control. Implemented EEPROM storage to retain access codes during power loss. Gained experience in access control logic, actuator control, and embedded security system design.

SKILLS

Programming Languages: C, C++, Python ,Embedded C

Microcontrollers & Boards: Arduino, Raspberry Pi, ESP32

Embedded Systems: Firmware development, peripheral interfacing, GPIO, ADC, UART

Development Tools: VS Code, Arduino IDE, MPLAB,Proteus

Hardware Design: Circuit Designing, PCB Designing,Digital Circuits,Analog Circuits.

CERTIFICATION

Embedded Systems Certification-T-Hub

C Programming Certification –CISO

C++ Programming Certification - CISO

Linux Essentials Certification – Red Hat

Microprocessor&Microcontrollers – Microchip University

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