PRINCE SURESH V S

Bangalore, Karnataka • +918606335846 • princesureshvs@gmail.com • linkedin.com/in/prince-suresh-v-s-1187a41ab

As an electrical and electronics engineering enthusiast with a focus on embedded systems, I aim to bring my skills in C, C++, ARM, and Linux to a dynamic role. Excited to contribute to innovative projects and grow alongside a forward-thinking organization.

EDUCATION

B.Tech in Electrical and Electronics engineering

Vidya Academy of Science and Technology(APJKTU) • Thrissur • GPA: 7.37 — August 2019 - August 2023

Class XII

Holy Cross Senior Secondary School(CBSE),ARTHAT • GPA: 7.3 — July 2017 - May 2018

Class X

Holy Cross Senior Secondary School(CBSE),ARTHAT • GPA: 9.2 — July 2014 - April 2015

SKILLS

Programming Languages: C, C++, Embedded C

Operating System : Linux, Windows

Microcontrollers: ARM-Microcontroller LPC2129, Arduino

Tools and Protocols : Keil µVision IDE, Proteus, Make Utility, UART, I2C, SPI, CAN, TCP/IP

Additional Skills: Debugging , Firmware Development, SLL, Git, Team collaboration, Adaptability, Attention to detail

EXPERIENCE

Vector India • Bangalore — October 2023 - June 2024

Embedded System course-Training

- Gained practical experience in programming ARM microcontrollers and embedded C .Engaged in projects and exercises to develop firmware and enhance debugging skills.

CSEED • Thrissur — December 2021 - January 2022

Internship on Embedded Systems and IOT

- Developed an Arduino-based gas leakage detection system, with real-time monitoring reducing response time by 30%. Optimized test times across teams, increasing pass rates by 20% and enhancing system stability by 15%.

PROJECTS

Electro Mechanical CPR — January 2023 - June 2023

Description: Designed an electro-mechanical CPR device for emergencies using Arduino, Improving compression accuracy by 30%. Integrated sensors and DC gear motor for accurate and consistent chest compressions increasing effectiveness by 25%. Tailored for easy operation by first responders and laypeople to enhance emergency response effectiveness by 40%.

Technologies Used: Arduino, Pulse Sensor - MAX30100, Electric Motor.

Student Database Management System — November 2023 - November 2023

Description:Developed a student database management system in C, implementing CRUD operations, sorting functionalities, and data persistence. Leveraged advanced data structures(SLL), dynamic memory management, and the Make utility. Ensured system reliability with automatic data insertion and comprehensive error handling.

Technologies Used: C, Make utility.

Employees Attendance System with RFID Cards — February 2024 - February 2024

Description: Implemented an employee attendance system using RFID cards for efficient management. Stored data in a file for easy access and cross-checking. Utilized microcontroller programming and UART for data exchange. Ensured accurate time tracking with RTC DS1307 integration. Created personalized messages for employee entry and exit. Modernized attendance tracking with a secure and efficient solution.

Technologies Used: LPC2129 Microcontroller, EM18 RFID Reader, DS1307 RTC, Alphanumeric LCD.

Mini Projects

Home Automation (LPC2129, Bluetooth),**Light and Voltage Measuring Device** (LPC2129, SPI), **Digital Clock** (LPC2129, I2C)

VOLUNTEERING & LEADERSHIP

National Service Scheme — August 2019 - March 2022

Student volunteer • Thrissur, Kerala