# PRINCE SURESH V S

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Motivated engineering graduate with strong programming skills, knowledge of Linux systems, and understanding of communication protocols such as UART, I2C, SPI, CAN. Seeking to contribute to innovative projects in a forward-thinking organization.

## SKILLS

**Programming Languages:** C, C++, Embedded C

**Scripting Tools:** Shell Scripting

**Operating System :** Linux, Windows

**Development Tools:** GIT, Make Utility, Keil IDE, Proteus

**Protocols:** UART, I2C, SPI, CAN

**Microcontrollers:** ARM-Microcontroller LPC2129

**Other Skills:** Adaptability, Experimental Mindset, Team Player

## PROJECTS

### Electro Mechanical CPR

January 2023 - June 2023

**Description:** Designed an electro-mechanical CPR device for emergencies using Arduino, incorporating sensors and a DC gear motor for accurate and consistent chest compressions. It is tailored for easy operation by first responders and laypeople to enhance emergency response.

**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 Using HC-05 Bluetooth Module and LPC2129

### Electronic Voting Machine using LPC2129

### Headlight Control Dashboard using CAN Protocol

## TRAINING AND INTERNSHIPS

### 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 leak detector with faster response times and improved system reliability.

## EDUCATION

### Bachelor of Technology in Electrical and Electronics engineering

APJ Abdul Kalam University • Kerala • GPA: 7.37

August 2019 - August 2023