

# SUNEELAKUMAR

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## CAREER OBJECTIVE

An Electronics and Instrumentation Engineer skilled in microcontroller and C programming seeking to join a respected organization, would like to enhance the skills over time and contribute my ideas towards the productivity of the company.

## ACADEMIC DETAILS

	DEGREE	COLLEGE/SCHOOL	UNIVERSITY/BOARD	CGPA/%	Year of Passing
UG	B. E	P.D.A COLLEGE OF ENGINEERING	VTU BELAGAVI	6.8	2023
PUC II	-	MILLENNIUM P.U. COLLEGE OF SCIENCE	DEPT.OF PRE- UNIVERSITY EDUCATION	78%	2019
S.S.L.C	-	VISHWA SANMATI HIGH SCHOOL GULBARGA	KSEEB	79.20%	2017

## PROFESSIONAL TRAINING

VECTOR INDIA PVT. LTD.

(November 2023 - till date)

- Working on Keil (Embedded Dev. tool).
- Hands-on experience on LPC2129 ARM7 based microcontroller.
- Learned C and Embedded C programming languages.

## TECHNICAL SKILLS

- Programming:** C, Embedded C, C++, Data Structures.
- Microcontrollers:** ARM, Arduino.
- Communication Protocols:** UART, I2C, SPI.
- Tools:** Proteus Design Tool, Flash Magic, µVision IDE by Keil.

## PROJECT DETAILS

**IOT Based Green House Monitoring And Controlling System**

- Developed an IoT-based system for real-time monitoring and automation of greenhouse conditions.
- Enhanced resource efficiency by automating irrigation, lighting, and ventilation controls.
- Implemented remote access features for monitoring and controlling environmental parameters.
- Integrated data logging and analysis for optimizing plant growth conditions.
- Improved crop yield and sustainability through smart, data-driven resource management.

## **RFID Based Employee Attendance System**

- Developed an RFID-based system to streamline employee attendance tracking, enhancing accuracy and efficiency over traditional methods. This system employs RFID tags and readers to automate attendance logging.
- Implemented UART (Universal Asynchronous Receiver/Transmitter) protocol to establish reliable communication between the RFID reader and the LPC2129 microcontroller. This setup ensures efficient data transmission from the RFID reader to the microcontroller for processing.
- Utilized I2C (Inter-Integrated Circuit) protocol to interface the LPC2129 microcontroller with the RTC. This connection allows the system to fetch the current date and time, which are crucial for accurate attendance logging.
- Employed Linux serial port programming to store employee attendance data, including in-time and out-time, in files on a Linux-based server. This method ensures data persistence and accessibility for reporting and analysis

## **INTEGRATED STUDENT INFORMATION SYSTEM**

- In a student database project, I utilized the C language and data structures to effectively manage student data.
- The project involved storing information such as student names, roll numbers, and marks dynamically in memory. By employing data structures, I ensured efficient storage and retrieval of the data for any number of students ('n').
- This approach facilitated the creation of a robust and scalable database system capable of accommodating varying amounts of student information.

## **SMART HOME CONTROL WITH BLUETOOTH HC-05**

- Implemented using the HC-05 module to establish a wireless link between the smartphone and the microcontroller. This setup allows users to send commands to control home appliances.

## **ACHIEVEMENTS**

- Organized a college event titled 'Celebrity Event' as part of NIRMAN 2K22.
- Coordinated 'Freshers 2K23' event for juniors.

## **LANGUAGES**

- English (Read, Write & Speak).
- Hindi (Read, Write & Speak).
- Kannada (Read, Write & Speak).

## **PERSONAL DETAILS**

- D.O.B : 13<sup>th</sup> May 2001.
- Gender : Male.
- Marital Status : unmarried.
- Permanent Address : Sawleshwar, Aland(Taluk), Kalaburagi Dist, Karnataka, 585302.

## **DECLARATION**

I, do hereby solemnly declare that the above-mentioned information is true to the best of my knowledge.

PLACE: BANGALORE.

DATE:

[SUNEELAKUMAR]