

## CURRICULUM VITAE

**SIVASAKTHI RAMAN**

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### OBJECTIVE

Dedicated and detail-oriented Embedded Software Engineer with 1 year of experience in developing and debugging real-time embedded systems. Seeking to leverage my expertise in firmware development, hardware integration, and system optimization to contribute to innovative embedded solutions while continuing to grow professionally.

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### PROFESSIONAL EXPERIENCE

#### **DELOPT (A Division of JK Paper)**

##### *Embedded Software Engineer – Feb 2023 – Present*

- Developed and optimized real-time embedded software solutions using Embedded C and C++.
- Configured and managed GPIOs for seamless interfacing with peripherals.
- Implemented and debugged communication protocols such as UART, SPI, I2C, and CAN for hardware-software integration.
- Designed and implemented WiFi configuration for embedded devices, enhancing IoT connectivity.
- Utilized version control tools like Git for collaborative development and efficient code management.
- Developed GUI applications using Tkinter for embedded system interfacing.
- Hands-on experience working with Banana Pi and Raspberry Pi for embedded system prototyping and testing.

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### EDUCATION

#### **PG Diploma in Embedded Systems Design and Development**

Indian Institute of Embedded System, Bangalore (6-month course)

#### **Bachelor of Engineering - Electronics and Communication Engineering**

Parisutham Institute of Technology and Science (2019-2023)

**CGPA: 8.43**

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### TECHNICAL SKILLS

- Programming Languages: Embedded C, C++, Python, Data Structures & Algorithms
- Microcontroller/Processor Knowledge: 8051, ARM Cortex, Banana PiM64, Raspberry Pi4, Raspberry Pi5
- Communication Protocols: I2C, CAN, SPI, UART
- Operating Systems & Tools: Linux, RTOS, Shell Scripting, MATLAB (Basics)
- Other Skills: Digital and Analog Electronics, OOP Concepts, Networking
- Software: Microsoft Word, PowerPoint
- Additional Skills: Problem-solving, team collaboration, and quick learning

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### PROJECTS

#### **Smart Fuel Monitoring System (Embedded Platform)**

- Designed a real-time monitoring system to track fuel theft, overloading, and rash driving incidents.
- Developed notifications sent to users through a dedicated web interface using C programming.

#### **Electronic Door Lock System**

- Created a system to control door access via password verification using Embedded C.
- Integrated components like an LCD display, DC motor, and keypad.

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### AREAS OF INTEREST

- Embedded Systems & Electronics
- Communication Protocols
- Microprocessors and Microcontrollers

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### DECLARATION

I hereby declare that the information provided above is true to the best of my knowledge.

**Sivasakthi Raman**