

Srikanth S

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Introduction

Results-driven Embedded Systems Engineer with proven expertise in developing and implementing embedded solutions using C, C++, Python, and embedded C. Adept at working with microcontrollers (STM32, ESP32), CAN protocols, UDS, and AUTOSAR frameworks. Skilled in PCB design, hardware debugging, and leveraging tools such as CANoe and Vector tools to ensure optimal system performance. Strong background in embedded systems, hardware design and microcontrollers, paired with excellent analytical and communication abilities to deliver innovative and efficient solutions..

Education

Sri krishna college of technology, BE in Electronics and communication Engineering Mar 2019 – May 2023

- CGPA: 7.5/10
- **Coursework:**, Comparison of Embedded system Network Theory, VLSI, Network protocols.
- **Project:** Hazardous area monitoring using IoT - regional level contribution through NAAN MUDHALVAN scheme.

Experience

Embedded Engineer, L and T Technology Services– Mysore, KA June 2023 – Nov 2024

- Developed and debugged embedded software using C, C++, and Python for STM32 and ESP32 microcontrollers
- Designed, tested, and validated PCBs for IoT and automotive applications
- Implemented CAN protocols, UDS diagnostics, and AUTOSAR-based architectures for enhanced system performance
- Utilized tools like CANoe and Vector software for network simulation and analysis

Projects

Software Defined Vehicle (SDV) 8 Months

- Contributed to the development and validation of embedded systems for SDV platforms, ensuring seamless integration with vehicle architecture.
- Implemented and tested communication protocols such as CAN and UDS for efficient data exchange and diagnostics.
- Utilized AUTOSAR frameworks to design scalable and reusable software components for automotive applications.

Automotive Diagnostic Tool 4 Months

- Developed an embedded diagnostic tool for vehicle systems, leveraging C and embedded C programming for real-time functionality
- Implemented UDS protocols to enable effective fault diagnosis, error code retrieval, and system configuration
- Designed and tested hardware interfaces for seamless communication with CAN and LIN networks
- Utilized tools like CANoe to simulate, test, and validate diagnostic communication processes

Technologies

Languages: C++, C, Python, CAN, UDS
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Technologies: Keil, STM32 CUBE, Eclipse, CANoe, Canalyzer.