

SREEJA C

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PERSONAL PROFILE

Embedded Software Engineer with 2 years of hands-on experience in the automotive domain, specializing in industry-standard communication protocols such as CAN (Controller Area Network), LIN (Local Interconnect Network), and UDS (Unified Diagnostic Services). Proficient in C programming, with formal training in Operating Systems and Networking, contributing to robust and efficient software solutions for embedded systems.

TECHNICAL SKILLS

- Programming Languages: Embedded C, C++
- Experience in Linux application development in C.
- Hands on experience on iMX8DXL microprocessor and NXP S32 Microcontroller.
- Experience in Yocto layer creation and package building.
- Inter-Process Communication (IPC): Sockets, Pipes, FIFO, Message Queues
- Multithreaded Programming
- Automotive Protocols: CAN, LIN
- Communication Protocols: I2C, SPI, UART
- VS code Diagnostic Protocols: UDS (Unified Diagnostic Services)
- Scripting: Shell scripting, CAPL scripting
- Hands on experience in embedded C for Industrial and Automotive applications.
- Experience in Software Debugging.
- Development Tools: CANoe, NXP OpenBus, PEMicro, S32 Design Studio, VS Code, Dev C++.

EXPERIENCE

- **May 2023 – Till date: Associate I - Embedded Software Engineer – Capgemini**
 - Diagnostic ID Implementation: Implement diagnostic ID functionalities in the S32 tool with help of driver files. Ensure accurate and efficient diagnosis of system components to support the PRB project.
 - CAPL Scripting and Panel Creation: Develop CAPL scripting code and design panels in CANoe for automating tests, simulation and creating user-friendly interfaces for system monitoring and control.
 - Strong knowledge of automotive communication protocols, including CAN, LIN and UDS.
 - Developed test applications to verify CAN routing and created Library APIs for reading and writing CAN frames.

- Added custom layers and authored recipes in Yocto Project to build embedded Linux applications tailored for project requirements.
- Built test application to read GPS data and utilized shell scripting for automating testing processes.
- **November 2022 - May 2023: Internship Capgemini**
 - Proficient in Linux commands and C programming, including pointers, structures, and file handling.
 - Basic knowledge of Object-Oriented Programming (OOP) principles.
 - Skilled in file operations and data structures, with a focus on linked lists in C
 - Experience with Linux Operating System features such as Inter-Process Communication (IPC) and multithreading.
 - Strong understanding of networking protocols (TCP/UDP) and socket programming, including the implementation of client-server socket programs.
 - Developed communication mechanisms using pipes and message queues for IPC.
 - Familiar with development tools like Valgrind and Make.
 - Knowledge in character and block device drivers

EDUCATION

- B.Tech in Computer Science and Engineering from Government College of Engineering Kannur Secured 7.64 CGPA.
- Diploma in Computer Engineering from IPT and GPTC Shoranur, Board of Technical Education in 2019. Secured 8.29 CGPA.
- Higher Secondary from Government Higher Secondary School East Ottapalam, Palakkad in 2016. Secured 75% marks.
- Secondary School from L.S.N Government Higher Secondary School Ottapalam, Palakkad in 2014. Secured 90% marks.