

Venkatesh Dasari
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Career Objective

Embedded Systems Engineer with over 3.4 years of experience specializing in Embedded Software Design, Development, and Testing. Proficient in AUTOSAR and FreeRTOS, with a focus on real-time embedded systems, device driver development, and integration. Seeking to leverage technical skills in a challenging role within the automotive and electronics domain

Professional Summary

- 3.4 years of hands-on experience in Embedded Software Development for automotive and camera-based applications.
- Strong proficiency in communication protocols (CAN, I2C, SPI) and microcontroller programming (STM32 series).
- Skilled in device driver development, and integration testing, with a demonstrated ability to meet project timelines.

Technical Expertise

Languages	: Embedded C, C++
Protocols	: CAN, I2C, SPI, UART
Operating Systems	: FreeRTOS, AUTOSAR
Development Tools	: STM32CubeIDE, Visual Studio, GHS Multi
Debugging and Testing Tools	: ST Link, Rev 8 Debugger, Vector Canoe, DLT Viewer, Logic Analyzer, Tera Term

Professional Experience

System Engineer | Tata Consultancy Services Ltd. (Sep 2023 – Present)

Project: Virtual Cockpit Unit (VCU) for Automotive Applications

Responsibilities:

- Conducted requirement analysis and implemented IPC (Instrument Panel Cluster) features, including Menu Pages, Gages, and Gear Indicators.
- Resolved critical defects in IPC functionalities through detailed requirement analysis and end-to-end testing.
- Maintained code versioning in Git and optimized build processes with Jenkins.

- Collaborated closely with cross-functional teams to ensure timely delivery, adhering to coding standards and project timelines.

Software Engineer | Capgemini India Pvt Ltd, Hyderabad (July 2021 – Sep 2023)

Project: Camera Firmware Development for GoPro Project.

Responsibilities:

- Developed battery management firmware for real-time monitoring (voltage, SoC, temperature) and diagnostics.
- Implemented battery authentication using I²C, Integrated smart battery features, including fuel gauge communication for health metrics and cycle count.
- Utilized RTOS mutexes and work queues techniques for thread-safe, real-time battery state monitoring.
- Developed logging mechanisms for battery metrics (console and file-based) to aid debugging and diagnostics.

Key Achievements

- Awarded "**On the Spot (Team) Award**" for outstanding performance in June 2024.
- Received "**Applause for Team Award**" in June 2024 for excellence in project delivery.
- **Outstanding Contribution Insane Delivery Team Award (ER&D)** from Jan 2022 to Mar 2022.
- **Star Award (ER&D)** for exceptional performance from Oct 2022 to Dec 2022.

Education

- **B. Tech in Electronics and Communication Engineering**
St. Ann's College of Engineering and Technology, Chirala
Percentage: 7.12CGPA | **Year:** 2020

Declaration:

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

Place: Bengaluru

Dasari Venkatesh