

VEMULA SRIKANTH

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OBJECTIVE

To secure a challenging position as an Embedded Software Engineer in a dynamic organization where I can leverage my 2 years of experience in the automotive domain, utilizing my technical skills in embedded systems, HMI development, and communication protocols to contribute to the organization's success and growth.

EXPERIENCE

People Tech Group
Associate Software Engineer

DEC 2022 - Present
Hyderabad

Project: Instrument Panel Cluster (IPC)

Client: General Motors

Domain: Automotive

Role: Junior Software Engineer

EDUCATION

- Master of Technology (M Tech)** in Embedded Systems (ES)
Institute of Aeronautical Engineering, Dundigal
2020 - 2022 | **80%**
- Bachelor of Technology (B Tech)** in Electrical and Electronics Engineering (EEE)
Vivekananda Institute of Technology and Science, Karimnagar
2016 - 2020 | **CGPA: 7.7**

PROJECTS

Project #1: Instrument Panel Cluster (IPC)

- Developing and testing **HMI** systems for the **Instrument Panel Cluster (IPC)**, **Remote HMI (RHMI)**, and **Heads-Up Display (HUD)** for General Motors' vehicles (Cadillac, Chevrolet, GMC).
- Working in an **Agile environment** and collaborating with cross-functional teams to deliver high-quality software solutions for **infotainment** and **vehicle display systems**.

Key Responsibilities & Achievements:

- Led **end-to-end development** for IPC software, integrating speedometers, odometer gauges, info pages, telltales, and alerts for **various display sizes** (8-inch, 11-inch, 29-inch, 34-inch, 54-inch).
- Enhanced the **RHMI** by successfully implementing **Bluetooth**, **CarPlay**, and **Android Auto** support for seamless infotainment integration across multiple platforms.
- Developed and tested the **HUD** system for digital speedometers, maps, audio sources, and gauges, improving the **driver experience**.
- Improved software deployment speed by 20%** through streamlined testing and calibration processes, significantly reducing development time.
- Created and executed test cases** for functional, integration, and regression testing, ensuring the seamless operation of IPC and infotainment systems.
- Reduced software defects by 15%** through proactive bug tracking and early detection in the development cycle using **JIRA**.

Tools and Technologies Used:

- **Development Tools:** Qt, Canoe, VIP Flash Helper, QNX, Tera Term
- **Tools & Technologies:** Q-Fill, Tera Term, QNX Momentix, Vector Canoe, VIP Flash Helper, FROG Artifactory, HEX View
- **Project Management & Collaboration:** JIRA, RTC
- **Testing & Debugging:** Black Box Testing, Functional Testing, Integration Testing, Regression Testing, Smoke Testing

SKILLS

- **Programming Languages:** C, C++, Embedded C
- **Operating system:** Windows, Linux
- **Automotive Protocols:** CAN, UDS, I2C, UART, SPI
- **Version Control Systems:** Git
- **Development Tools:** Vector Canoe and Basics of CAPL scripting.