**BANDI RAJKUMAR**

**Email**: bandiraz999@gmail.com | **Mobile:** +91 8463943223

**PROFESSIONAL SUMMARY**

A highly motivated Embedded Software Engineer in LTTS with 3.5 years of experience in the Automotive domain. Proficient in the development and testing of embedded systems, focusing on Embedded C, C++, CAN, Microcontrollers, and SW integration. Adept at system-level analysis, requirement traceability, and ensuring product quality through rigorous validation. Strong problem-solving, analytical skills, and a collaborative team player with expertise in Automotive Functional Safety, SW verification, and ASPICE process adherence.

**KEY SKILLS**

Programming Languages: Embedded C, Basics of C++ and CAPL

Protocols: CAN, SPI, I2C, UART, UDS (Basics)

Microcontrollers: 8051, Infineon Traveo T2G ARM Cortex (for Cluster)

Tools: CANalyzer, Bootloader, GHS Compiler, Auto Flash Utility (Infineon), Microsoft Visio

Version Control: GIT, Alfresco

Ticketing/Issue Tracking: Doors, JIRA, Polarion

ECU Flashing Tools: Auto Flash Utility (Infineon)

Testing/Measurement: Manual Testing on Software Test Benches (Cronus, Triton, SWTB1)

**PROFESSIONAL EXPERIENCE**

**Project 5:** **Suzuki YXO-PAK/Y4L Instrument Cluster Panel**

Role: Embedded Software Developer

Responsibilities:

Developed Telltale functionality and Warning software for the Instrument Cluster based on system requirements.

Created CAN DBC files for Telltale signals and supported UDS and Factory Check validation testing.

Authored software requirements and design documents and performed integration testing.

Developed functional test cases and validation test plans for the respective modules.

**Project 4**: **HVAC- Climbox (ECU of HVAC System)**

Role: System Engineer

Responsibilities:

Defined system-level requirements based on customer specifications.

Analyzed system requirements and derived design-level requirements.

Created quality check sheets, proposal drawings, and performed change management to ensure process alignment.

**Project 3: VOLVO MEP 2**

Role: Requirement & Test Analyst

Responsibilities:

Analyzed ASPICE activities in Polarion (SYS.4, SYS.5, SWE.5, SWE.6).

Created test plans and cases (SWE.5 Layer Test) based on software and system architecture.

Performed manual testing on software test benches (Cronus, Triton, SWTB1).

Maintained traceability between requirements, test cases, and architecture diagrams.

**Project 2: VOLVO MEP 2**

Role: Requirement Engineer

Responsibilities:

Wrote and derived software requirements, ensuring traceability and alignment with client specifications.

Performed detailed requirement analysis and validation to ensure all customer and system requirements were met.

**Project 1: TSGEN-ASPICE GAP**

Role: System & Software Engineer

Responsibilities:

Worked on the verification criteria for system requirements at ASPICE levels BP1 to BP6 (SWE1).

Updated and reworked Polarion documentation to meet ASPICE rev 3.1 Level 1 and Level 2 processes (System, SW, Functional Safety, Test).

Performed reverse engineering from code and analyzed functional safety requirements.

Reviewed non-functional requirements verification for alignment with linked test cases.

**EDUCATIONAL QUALIFICATION**

Bachelor of Engineering in Electronics and Communication Engineering

[JAYAMUKHI INSTITUTE of TECHNOLOGY and SCIENCES ], [2020 with 8.7%]

**CERTIFICATIONS**

Automotive SPICE (ASPICE) Certified Professional

Functional Safety in Automotive Systems

Certified Embedded Systems Professional

**PROJECT HIGHLIGHTS**

Telltale Functionality Development for Suzuki YXO-PAK Instrument Cluster: Led the development of software for instrument cluster telltales, contributing to timely project delivery and quality validation.

HVAC- Climbox ECU: Supported system-level requirement derivation and change management for the HVAC ECU system, ensuring alignment with customer specifications.

VOLVO MEP 2: Contributed to the creation of comprehensive software test plans and maintained requirement traceability for software and system integration.

TSGEN-ASPICE GAP: Played a key role in updating verification criteria for system requirements and ensuring adherence to the ASPICE standard, optimizing process flow.

**ADDITIONAL INFORMATION**

Languages: English (Fluent), Telugu, Hindi, Tamil.

Location Preference: [Hyderabad, Bangalore, Chennai]

RAJKUMAR