

MADDELA SATISH

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Summary:

- 3 years of Experience in development of **Automotive AUTOSAR based SW components** using **Vector Tool**.
- Responsible for Analysis of Customer Requirements, Testing, and Integration of the changes into the embedded software
- Hands on experience on programming like **C**, and **Embedded C**.
- Experience on project **BCM, BootLoader**.
- Hands-on experience on **BSW configurations** by using Vector.
- Hands-on Experience with Diagnostics **UDS**.
- Basic Knowledge on **AUTOSAR Layered Architecture**.
- Hands-on experience on **DCM, COM and CRYPTO stack implementation**.
- Well-versed in communication protocols including **CAN, UDS, UART, SPI and I2C**.
- Strong knowledge on **ASPICE** and **MISRA – C** guidelines.
- Maintain excellent communication and relationship with various stakeholders of the project.

Professional Experience:

- Working as **Software Engineer** for **Valeo India Pvt ltd, Chennai** from Oct 2022 to Till date.
- Worked as **LAB Coordinator** for **Vector Institute**, Hyderabad from Dec 2021 to Oct 2022.

Certification Course:

- Successfully completed 6 months advanced course in **Embedded Systems** at **Vector Institute Hyderabad** after clearing All India Entrance test

Academic Profile:

- **B. Tech** in Electronics and Communication Engineering from Aurora's Scientific Technological And research academy (2018-2022)

Technical Skills

- **Programming Languages:** C, Embedded C, knowledge on C++ .
- **Configuration/ Requirement Tools:** JIRA, DOORS, Codebeamer, Catia magic, Enterprise architecture.
- **Software Tools:** Davinci, CANOE, Visual Studio, Klockwork, source insight, GCC compiler, VectorCast, keil software.
- **Debugger/Flashing Tool:** Trace32, VFlashingTool.
- **Protocols:** CAN, CAN-TP, UDS.
- **Development Process:** Automotive SPICE, V-model.

Current Project:

Project 1: Diagnostic Services Handling (OEM: Honda, Geely, Toyota)

- **Environment:** Davinci configuration, Davinci Developer, Canoe, visual Studio Code, VectorCast, Code beamer, Rectify
- **Protocols:** CAN, UDS

Role & Contribution:

- Analyzed Stack holder Requirements and Derived Software Requirements using DOORS.
- Implemented Services are 0x10, 0x11, 0x22, 0x2E and Flashing services using Vector DCM stack.
- Performed Static Analysis against MISRA – C guidelines.
- Performed Unit Testing, Integration and Validation Testing with ASPICE SWE appliance.
- Performed Traceability from SWE.1 to SWE.6 using Rectify

Project 2: Security Features Implementation (OEM: Honda, Geely)

Role & Contribution:

- Analyzed Stack holder Requirements and Derived Software Requirements using DOORS
- Implemented Session Key Generation using for authenticating the ECU by Using Vector Crypto Stack.
- Implemented Signature Schemes (RSA-PSS-3072, ECDSA) , Hash-SHA256, Key Exchange algorithm(ECDHE) and Key Derive Function(KDF)
- Performed ASPICE swe qualifications.
- Implemented Secure Update/secure Flashing using for validating the Downloaded software using vector Crypto stack.
- Using signature scheme of RSA-PSS -2048 and Hash – sha 256.
- Performed Unit Testing using Vector Cast and Validation testing canoe.

Project 3: Valeo Ultrasonic Sensor (OEM: Honda, Geely, Toyota)

Role & Contribution:

- Understanding and analyzing the requirements (Swe5 and Swe6) from the IBM Doors.
- Developed and executed test cases for ultrasonic sensor systems, covering various aspects such as object detection, distance measurement, Diagnostics data.
- Contributed to the development and maintenance of test automation frameworks, improving testing efficiency and coverage.
- Stayed abreast of the latest advancements in ultrasonic sensor technology and automotive testing standards.
- Identified, documented, and tracked defects using Corealm, collaborating with development teams to ensure timely resolution.

Utilized vTeststudio for writing the test cases and Vector CANoe for automation execution of the test cases and Castle to simulate the sensor data.

Personal Details:

Name : Satish M

Father's Name : Ganesh M

Date of Birth : 09-10-1998

Gender : Male

Languages known : English, Telugu, Hindi

Nationality : Indian

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above mentioned particular.

Place: - Chennai.

Date: -

SIGNATURE
[M Satish]