

Vinay Andhavarapu

Associate Software Engineer

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OBJECTIVE :

Embedded Software Engineer with 2+ years of experience in automotive software development. Proficient in designing robust software solutions and delivering high-quality outputs. Seeking challenging opportunities to leverage my expertise and contribute to innovative projects in a dynamic environment.

WORK EXPERIENCE :

Associate Software Engineer

Bosch Global Software Technologies PVT LTD [19/01/2023 – present]

City: Coimbatore.

SW Development Methodology: V-Model.

Client: General Motors.

Team Size: 8

SkillSet: Autosar, Embedded C, Python, HIL Testing, SDOM,GIT, ECU-Worx, RQONE, TPT, Jira, CAN, UART,SPI, I2C etc..

- ❖ Worked as **Associate Software Engineer** for the Engine Control Module – ECU in V & V Flow model.
- ❖ Experienced in **C** Programming Language.
- ❖ Designed various Model based development using **ASCET**.
- ❖ Experienced in **AUTOSAR**-based software integration for Powertrain modules, including SW Adapter (**SWAdp**) development, integration of ASW and BSW components, performing integration testing, and delivering software at the PVER level to GM calibration teams.
- ❖ Experienced in performing Basic Functional Testing (**BFT**) of powertrain software using **HIL test** benches, leveraging the INCA calibration tool for measurement and analysis.
- ❖ Created Test Specification and Test cases for different software requirements based on **ASPICE** Process.
- ❖ Test Execution & Creation of Test Report based on Release Notes.
- ❖ Analysis of errors and warnings before software delivery to identify and fix critical errors.
- ❖ Good experience on reporting the defects and tracking them to closure using bug tracking tools **Jira**.
- ❖ Performed runtime analysis using the **SMART** (Static Runtime Measurement) tool integrated with the GLIWA server.
- ❖ Performed **SWA** analysis at PVER level, verified memory-related errors using **Memcheck**, conducted **Ehooking** of build software, managed SW configuration changes, and resolved SW build issues.
- ❖ Implementing test cases, and performing **Unit Verification tests (UT)** for all interfaces and functions developed in the SWadp module using the **TPT Tool**.
- ❖ Worked on **hardware configurations, OS scheduling configurations**.
- ❖ Proficient in **Git**, including resolving merge conflicts, troubleshooting errors, and managing version control workflows.
- ❖ Worked on batch scripting automation to run certain tools automatically on Jenkins server
- ❖ Performed the test with an **Oscilloscope, PICO scope, Function Generator** and **ETAS devices**.
- ❖ Good Knowledge on communication protocols like **CAN ,UART, SPI** and **I2C**.

TECHNICAL SKILLS:

- ❖ **Programming Languages** : C, Python and Batch Scripting.
- ❖ **Software tools worked** : INCA, MDA, Gliwa T1, Silver, Ecu-Worx, Jenkins.
- ❖ **Version Control Tools** : GIT, SDOM.
- ❖ **Protocols** : CAN, UART, SPI and I2C.
- ❖ **Requirement tool** : Request One, JIRA.
- ❖ **Simulation Tool** : Canalyzer
- ❖ **Test Bench Environment** : ETAS Labcar, HIL Testing, Unit Testing using TPT.

EDUCATION :

KL University

Bachelor of Technology, Electronics and Communication Engineering
CGPA- 8.7

Guntur, AP

2018 – 2022

Sri Chaitanya Junior College

Intermediate, MPC
Percentage – 92.6%

Visakhapatnam, AP

2016 – 2018

Keshava Reddy High School

Secondary School of Education
GPA – 9.8

Srikakulam, AP

2015 - 2016

CERTIFICATIONS:

- ❖ Huawei Certified ICT Associative - Artificial Intelligence
- ❖ Introduction to IoT by Cisco Netacad
- ❖ Programming for Everybody (Getting Started with Python)

STRENGTHS:

- ❖ Quick learner
- ❖ Stress tolerance
- ❖ Critical thinking

SELF DECLARATION :

I hereby declare that the details furnished above are true to the best of my knowledge and belief.

Place: Visakhapatnam

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