# SIMHADRI ACHARI

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## Links

- https://www.linkedin.com/in/achari-simhadri-068253ab/

## Professional Summary

- Overall, 3+ years of Experience in Automotive Industry as a Model Based Developer Validation Engineer (SystemTesting, Functional Testing, Unit testing)

- Good Understanding of Complete Software Development Life Cycle including Requirement Analysis, Test Planning, Testing/Validation, Delivery of Reports and Global Customer Interaction.

- Good Understanding of TPMS (Tire Pressure Monitoring System)

- Good Knowledge on Developing Models using Simulink and State flow, Target link

- Good Experience on MIL, SIL testing and also debugging Skills

- Hands on experience with Communication protocols CAN With OBD tool (DDT2000), gathered logs from the vehicle

- Handled major suppliers like Continental, Pacific Industrial Corp, Schrader ALPS, etc. towards application development of TPMS

- Managing RPA & VBA based tools to automate and enhance the efficiency of various jobs that are performed

## Technical Skills

- MIL and SIL Testing: Time Partition Testing (TPT), Simulink, Target link, Code coverage, State flow

## Work History

**WIPRO TECHNOLOGIES Deputed to DTICI [Mar 2023 – Feb 2024]**
**Designation: Software Engineer**
**Department: ASAM**
**Job Summary: -**

- Developed the Test Cases and Validated using MIL and SIL approach to ensure all the input and output fully tested for BCM components.
- Involved In Requirement Analysis, Failure analysis, Umgebung Update.
- Experience on Code Generation using Target link.
- Hands on MCDC Code coverage

- Conduct the project team meeting with project manager and lead engineer to analyze the defects found during validation.
- Create the summary report including list of defects with severity rating.

Tools used: TPT, MATLAB, Simulink, Target link

**SEGULA TECHNOLOGIES [Oct 2021 - Mar 2023]**
**Designation: Engineer**
**Department : Chassis**

- Responsibilities: Handled TPMS MIL validation for Renault EE Architecture & Alliance EE architecture using MATLAB & SIMULINK

- And confirming the Compliance matrix of each EE model (C1A HS, C1A EVO, Sweet400, etc) as per alliance OEM standards

- Analyzed requirements, and developed test cases, test procedures, and test reports

- Kept track of tested requirements in the Traceability matrix.

- Perform Unit Testing MIL

- Validated CAN message communication between ECUs using CAN analyzer

- Leading RNTBCI TPMS engineers for the development of Renault & Nissan Projects handled at RNTBCI

- Took full responsibility for completing the TPMS vehicle validation locally for the first time for any Renault Nissan models at RNTBCI

**ADVANCED RESEARCH INSTITUTE [Dec 2020 - Oct 2021]**
**UAV Electronics Engineer**
**PROJECT:  WIPER CONTROL SYSTEM USING MATLAB & SIMULINK**

**Description: Development of wiper control system using Simulink & State flow based on the weather conditions.**
Tools: MATLAB and Simulink
Responsibilities:
- Create the model as per the requirements
- Involved in coverage analysis of model
- Verify the developed model using model advisor
- Involved in MIL and validate the generated code of model using SIL testing

**Education**

**Masters of Technology**: **Automotive Electronics**
Vellore Institute of Technology - Vellore
GPA: 7.01

**Bachelor of Technology**: **Electronics and Communication Engineering**
Akula Sree Ramulu College of Engineering - Tanuku


Place: Chennai, India
Date: May 2024                                                    Simhadri Achari


Please Note: - Any references required can be provided upon requirement