

Gowtham Ramarajan

Engineer @FCA Engineering India Pvt Ltd

OBJECTIVE

To be inspired and Be inspired in the domain which I am entitled to work.

SUMMARY

HIL Model based development and Automation Engineer – Worked with MATLAB and python integrated dSPACE Tools and System Benches/Simulators for a period of around 3 years in Body and Chassis Electronics.

EXPERIENCE

Engineer, FCA Engineering India Pvt Ltd.

Chennai (Tamil Nadu), India – 2019, Jan – present

Automation Tools and Infrastructure

Accomplishments

- **Utility Tools** development for Hybrid Control Processor V-ECU Team with **Python** Scripting.
- Exposure to **VEOS, Bus Manager and System Desk** Applications.

Active Chassis and Safety System Bench setup support and Development for M6 POC

Accomplishments

- **Kollmorgen AKD-Drive** Setup and Configuration using the Workbench software.
- Modbus to CAN Configuration with the **SW-Compositor** and **Modbus-Poll** Software for development and Validation.
- ASM Model Data acquisition for Brake Application with Wheel Speed sensor simulated Data.
- Wheel Speed Sensor Simulation using the DS207 (Current Measurement Board) for DSP DS2211 DAC line.
- **ASM** Model Integration with Vehicle HIL Simulator. Exposure to **Model-Desk** and **Motion-Desk** Tools for Road Generation and Visualization.

HIL Model Based Development for Body and Chassis Electronics for M6, MP, M4 and WS.

Accomplishments

- ECU Power supply configuration with Sensors and Actuators Development based on the Signal list and IO List Information using **MATLAB - Simulink** integrated **dSPACE** PHS Bus - ds1006 Processor related boards (ds2211, ds2202, ds0666 and ds4004).
- **MATLAB - RTICANMM** and **RTILINMM** Block-sets used for Development for Virtual Bus and Rest bus Simulation for CAN 2.0 and LIN 2.1.
- Dynamic Model Development for based on the System Validation Team Requirements.
- **Control Desk Panel Development** for applicable functionalities with cross functional exposure to trail down discussions with Validation Team.
- **Power Relay Test, Stimulus Test and Smoke Test** - report Generation.
- **CAN Rest Bus Simulation Test** – report Generation with the help of Database Files.
- **LIN Bus testing** – report Generation after Parts and System Bench Commissioning.
- **MATLAB and Python scripting** for model and task automation.
- Model Maintenance based on the Change request Inputs for each Loop of Testing with the Database and LIN Description Files.
- Exposure dSPACE **SCALEXIO** Platform and **Configuration Desk** Application.

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Github: <https://github.com/Gowthamram983/CareerProgress/tree/main/Progress>

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Engineer @FCA Engineering India Pvt Ltd

Graduate Engineer Trainee, FCA Engineering India Pvt Ltd.

Chennai (Tamil Nadu), India – 2018, July – 2018, Dec

Wiring Harness – Virtual Validation/Design Sweep.

Accomplishments

- Supported Design Sweep/Wiring Harness Validation with the **UG-NX/Vismockup/Team Center Tools**.
- Validating Corporate Standards and Guidelines for DT, HDCC, RU, WL, WS projects in the following harnesses.
 - Headliner Harness, Console Harness and Lift-gate Harness
- Cross functional discussion with Design Release Engineering Teams for issue creation and verification in EE Portal.
- 3D harness Generation using the UG-NX Tool and Variant based disintegration in harness from 110% percent vehicle Configuration with the help of Sales Codes data and EBOM data Verification provided by other cross functional Teams.

GET Rotation Plan.

- Design, Virtual Analysis and Software Development for BCM and IPC Teams, Infotainment and Hardware in Loop Systems Team Rotation. (Power Train Not included)

Intern, FCA Engineering India Pvt Ltd.

Chennai (Tamil Nadu), India – 2018, Feb – 2018, Apr

Instrument Panel Cluster – Component Testing

- Developed Semi-Automatic Test Cases for Chimes and Tell-Tales Testing to verify the standard behavior.
- Validation of Developed Test cases and report generation with **Vector CANoe** and **CANCaseXL** integration.

EDUCATION

PSG Institute of Technology and Applied Research

Coimbatore (Tamil Nadu), India — 2014-2018

Bachelor's in Electrical and Electronics Engineering

SKILLS

- Protocols worked with: CAN, LIN and Modbus.
- Tools worked with: Pycharm IDE, MATLAB, dSPACE Tools (Control Desk, Model Desk, and Motion Desk), Microsoft Office Tools (Word, Excel, Power Point, and One Note) and Microsoft Visual Studio.
- Delft University Certification on Electric Cars Technology.
- Hewlett Packard Enterprise Certification on Embedded Systems Programming: MPLAB with XC8 Compiler and KEIL micro-vision.
- Programming languages worked with: M-Scripting, Python scripting and C programming.
- Team Player and Self-Motivated (Delivered few Knowledge transfer Sessions for Team Transitions and General Training Sessions)

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