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| 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 2 years in Body and Chassis Electronics. EXPERIENCEEngineer, 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 **SWCompositor** 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 2211 DAC line. * **ASM** Model Integration with Vehicle HIL Simulator. * Exposure to **ModelDesk** and **MotionDesk** 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 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.  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   + Liftgate 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.  EDUCATIONPSG Institute of Technology and Applied ResearchCoimbatore (Tamil Nadu), India — 2014-2018 Bachelor’s in Electrical and Electronics Engineering SKILLS  * Protocols worked with: CAN, LIN and Modbus. * Tools worked with: MATLAB, dSPACE Tools (Control Desk, Model Desk, Motion Desk), Microsoft Office Tools (Word, Excel, Power Point, One Note) and Microsoft Visual Studio * Hewlett Packard Enterprise certified training with: MPLAB with XC8 Compiler and KEIL micro-vision. * Programming languages worked with: M-Scripting, Python Scripting and C programming. * Team Player; Delivered few Knowledge transfer Sessions for Team Transitions. |