**Professional Summary**

* Attended industrial workshop for Automotive power train design
* 3 years of experience in the field of Embedded Systems significantly in the domain of Automotive Electronics
* Adroit in Development & Testing Infotainment (majorly into Connectivity, Phone, Media, Navigation), System Testing (Automotive Domain) , Bluetooth Testing, Wi-fi Testing, Bluetooth Co-existence Testing, Mobile Handset Application Testing, Product Testing and Fundamental Testing Life Cycle.
* Good Knowledge in CAN, UDS, OBD II, SPI and I2C Vehicle bus Protocol.
* Very good experience in Vector tools like CANoe, Canalyzer for Functional testing.
* Good knowledge in working with various RTOS like VxWorks, QNX & OSe
* Good exposure in Requirements understanding and analyzing & code reviews and walkthroughs.
* Extensively used test tools like PolySpace and Cantata for Regression Testing and Unit Testing.
* Exposure on Bug Life Cycle, Software Development Life Cycle like Agile, V-Cycle
* Good experience in writing test scripts and execution of units(functions) in Vector Cast/LDRA tool
* Good experience in Version Control tools GIT, SVN, Visual Source Safe
* Ability to manage multiple projects simultaneously in a team environment.
* Strong interpersonal skills and excellent communicator who works well independently and as a team and motivator.

**Diesel Engine Control Engineer**

**Liebherr, VA**  **Sept 16-dec17**

* Designed plant models for HIL simulations for Diesel engine in MATLAB simulink
* Performed auto code generation for diesel engine model from Simulink
* Noise and Vibration Engineer responsible for testing and leading acoustic solutions for the Compact Vehicle segment.
* Led testing at Chelsea for tire selection and mount rate development
* Development Engineer with full responsibility for the design concept, material specification, prototyping, testing, and quality of all Ford-supplied noise control, adhesive, sealing, and structural products
* Coordinated noise studies in the lab equipped with Aachen head and laser vibrometer
* Performed full vehicle idle & road shake/noise on Cadillac electric car and recommended design changes.
* Performed gage and weld optimization on biw and chassis parts to meet weight and weld reduction targets
* Diesel Engine Testing in test cell and preliminary software verification in Hardware in Loop (HIL
* Performed vehicle testing to validate the overall behavior of OBD Monitors, Engine, After-treatment and Driveline before release of a new calibration software and assisted in its preliminary verification in Hardware in the Loop (HIL) environment
* Perform sensitivity analysis using engine HIL system for desktop re-calibration of specific OBD monitors
* Simulate different altitude and climate testing using HIL system to study the trends of set point parameters
* Familiarity with engine, vehicle and after-treatment system physics
* Vehicle based testing and calibration of boost pressure control to investigate a customer issue of turbo charger pressure spikes
* Perform calibration validation for OBD monitors and engine dynamometer

**Environment:** Embedded C, Diagnostics, HIL System, MATLAB Simulink, Python

**Tire pressure Monitoring System Highline & Baseline ECU Testing.**

**Acculogix software solutions, India Dec 15 – Aug 16**

The TPMS system will be used to monitor the various parameters of tire. The sensors in the tire sense the tire parameters and these parameters will be transmitted to the ECU by RF message. ECU communicates with CAN and CLASS 2 protocol

**Roles and Responsibilities**

* Software validation using CANoe tool.
* Developing Test procedures in excel from System requirements
* Execution of test cases manual using CANoe tool and automation using scripting
* Verification and validation of the various documents
* Report bugs found during testing

**Environment:** CAN, RS232, CANCaseXL Log/CANCaseXL, CANoe, Clear Case

**Modular Test System**

**Acculogix Software Solutions, India april15 – Nov 15**

Modular Test System is a one stop solution for laser diode characterization and device testing. The user can incorporate two to four modules in one mainframe unit resulting in cost reduction, space and improved performance. Here single firmware version developed to compatible with any combination of modules.

**Roles and Responsibilities**

* Involved in design discussions and implementation for Modular design of main frame & modules
* Keypad interface and knob for numeric & functional control
* SPI Communication between main frame and modules (Communication between two controller)
* Firmware for the Graphical LCD Display ( T6963C Microcontroller, Graphical LCD240x128 pixels)
* 16 bit ADC and DAC
* RS232 (3-wire)

**Environment:** Atmega 128, AT325, T6963C, VXWorks, JTAG, Perforce, WinAVR GCC, AVR studio, CRO,

**Education**

* Masters in computer and information science with 3.4 GPA
* Bachelors in civil engineering with 3.5 CGPA