**BHARGAVA KRISHNA MIKKILINENI**

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**SUMMARY**

Embedded Systems Professional with a Master’s degree in Electrical Engineering from Wright State University, OHIO along with **5+** years of working experience in the Electrical and Electronics Manufacturing Industry. Proficient in Verification and Validation (V&V), Requirements Analysis, ADAS, Infotainment, Instrument Panel Cluster and Test Automation. Currently pursuing Master’s degree in Business Administration to develop Project Management skills.

**SKILLS**

**ISO Standards & Regulations:** ISO 26262, ISO 17387, ECE Regulations, CAN, MOST and Ethernet Protocols, ISO 14229 (Diagnostics).

**Scripting Languages:** CAPL, MATLAB

**Tools & Technologies:** DOORS, SIMULINK, CARMAKER, 4a System, FMEA, Microsoft tools, Vector tools (CANalyzer, Canoe), NeoVI, K2L.

**Operating Systems:** Windows 7/10, RTOS

**Management tools:** QNX 6.6, PTC Integrity 11, JIRA, Confluence, Cheetah 2019X, Lotus Notes 8.5

**GPS Equipment:** RT3000 v3 (OXTS), VBOX Automotive (Racelogic)

**PROFESSIONAL EXPERIENCE**

*Client:* ***Honda R&D Americas INC, Raymond, OH***

***Altair Product Design Jan 2020 – present***

***Position: System Test Engineer***

* Actively collect and understand the functional (**Hardware, Software & Communication**) requirements for infotainment system components.
* Research, propose, develop and justify any new functions (hardware, software, HMI, etc.) to meet the market requirements
* Develop, write and issue specifications for parts/systems assigned.
* Create and manage the part development schedule with consideration to all parties (supplier, designers, overall vehicle development, etc.)
* Manage the part supplier to achieve the development requirements on schedule
* Perform all necessary vehicle testing (hardware and functional) to guarantee product acceptance for mass production
* Write all necessary reports, presentations or technical documents to explain and/or make a record of the development activities
* Support factory, sales, etc. as required for product explanations, owner's manual reviews, manufacturing issues or market complaints
* Perform Market Analysis and consider continuous improvement activity for current and future development

***Environment***: Instrument Panel Cluster (IPC), Heads up Display (HUD), ISO 26262, CANalyzer, K2L, JIRA, Cheetah 2019X, Confluence, Lotus Notes 8.5, Tera Term, Microsoft tools

*Client* ***ZF TRW, Farmington Hills, MI***

***HCL Technologies Feb 2018 – Jan 2020***

***Position: Systems Engineer***

* Lead Validation team to demonstrate the truck with ADAS features to different Commercial OEM’s(European/Japanese) which awarded business for multiple variants
* Produce specification proposals to OEM’s on different ADAS features like **LCW, TA, FCTA, BSM** etc.
* In charge of maintaining Functional requirements to all Japanese OEM’s for Side Radars using **DOORS** Responsible to design and develop pin architecture for various truck variants using **Microsoft Visi0**
* Accountable to validate software releases from supplier both on vehicle and on SIL environment and raise defects found during testing using **Integrity 11**
* Supervise collecting data from radars by validating test vehicles using proprietary tools, **Vector tools, 4a system, GPS equipment like Racelogic and Oxford RT Maps**
* Answerable to validate test scenarios on **SIL** environment using **IPG CAR MAKER**, **SIMULINK** and evaluate sensor capabilities at different temperatures using **LabVIEW**
* Involved in developing, validating and making change requests to **MATLAB** scripts that are used to generate vehicle trajectory views

***Environment***: ISO 26262, ECE Regulations, DOORS, Microsoft Visio, Integrity 11, MATLAB, Software in Loop (SIL), CARMAKER, GPS Equipment

*Client:* ***Panasonic Automotive, Peachtree city, GA***

***Aclat Inc. Nov 2016 – Jan 2018***

***Position: Infotainment Validation Engineer***

* Worked on Human Motion Interface (HMI) and Instrument Panel Cluster (IPC) in SDLC product development life cycle on **RS 232** and **J6** micro controllers
* Involved in Requirement Analysis based on Doors Next generation (**DNG**), Electronics Telematics Module (**ETM**) specifications provided by customer and test plan review for functional requirements
* Created Quality **Test plans, Test designs** and **Test case generation** for multiple features and perform **Sanity testing, Diagnostic and feature testing** for every Software Release
* Responsible for bug fixes, root-cause analysis for all the defects found during vehicle testing and perform test automation on various features like Vehicle settings, Reverse View Camera (RVC) and Surround View Camera (SVC).
* Accountable to validate CAN interfaces for New features and CR’s and check all diagnostics, DID’s, PID’susing **ISO 14229 Protocol**
* Design and develop the interface between **HMI** and **IPC** for **Hybrid Electric Pages** feature.
* Accountable for issue reproduction for critical defects which are having insufficient logs
* Involved in stack holder engagement on feature progress and issue management to represent validation team for several customer meetings to highlight risks
* Mapped test cases and test results to requirements ID in **Requirements Traceability Matrix (RTM)**

***Environment***: Infotainment System, Instrument Panel Cluster, DOORS, ISO 14229 protocol, QNX 6.6, NeoVI Engine and other proprietary tools

***CSX Tech, Plano, TX Sep 2016 to Nov 2016***

***Position: Intern***

* Tested and evaluated Hybrid vehicles in both real world and controlled environment settings
* Investigated competitor HMIs for charging related features, design choices and user experience Performed **HV/PHEV** performance evaluations with various driving conditions to confirm suitability for US Market
* Developed new procedures/tools for testing, data acquisition and analysis of EV
* Attended, networked and evaluated latest EV market trends at major automotive/tech shows
* Documented investigation and evaluation results in an engineering technical report format

***Environment***: Hybrid Vehicles, Microsoft tools, Data Analysis, CANalyzer

**EDUCATION**

**M.S in Business Administration**

Campbellsville University, Louisville, KY May 2019 - Present

**M.S in Electrical Engineering**

Wright State University, Dayton, OH Jan 2015 – April 2016

**Bachelor’s in Electronics and communication Engineering**

Jawaharlal Nehru Technological University, India Oct 2010 - May 2014

**AWARDS**

Appreciation from Panasonic Management for Quality Customer support in resolving issues.