Vasavi

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| **Email:** vasaviembd@gmail.com**Contact No:****248-600-2406****Location: MI** | **Career Summary*** 5+ years of experience in Embedded Design, Development and Testing
* Experience in various communication protocols like- UART, I2C, SPI, CAN
* Customization/Bring up of Bootloader modifications for SoC platform
* Linux BSP and QNX BSP Board Bring-up of ADAS Surround View Video on customized SoC platforms
* Experience in handling Vector Can tools – CANoe and CANape
* Hands on experience on performing QAC for MISRA C coding violations
* Experience on configuration management tool MKS code integrity, GIT, SVN
* Experience in windows batch scripting
* Demonstrated abilities in device driver and R&D activities during various projects
* Commitment result oriented and interested to learn new technologies

Skill Details

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| Development Tools | : Autosar Workbench, MKS, Canoe, SVN. |
| Languages | : C, C++, Assembly, Python |
| Communication protocols | : CAN, UART, RS232, I2C, SPI |
| OSDebuggersISO Standards  | : Linux, QNX : Lauterbach Trace32 Debugger : ISO 14229, ISO 26262 |

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Professional Experience

Embedded Software Engineer at Aptiv- Michigan [Jan 2020 to Till Date]

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| Project Name | **ADAS System Bring-up and Validation** |
| Details | This project involves ADAS Surround view Bring-up and enhancements includes analyzing requirements, Validating/Triaging and bug fixing for variant automotive vehicles. The defect triaging is carried out on multi core target platforms. |
| Responsibilities  | * Requirement Analysis
* Validation, Debugging and Identifying root cause of various issues with ADAS features
* Reproducing and resolving inter-processor communication issues
* Validating and resolving issues with Calibration features
* Reproducing and resolving hard core issues with video pipeline interfaces
* Creating private builds, custom bootloaders, validation and lab support
* Unit and Integration testing
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| Technologies, Tools & Language |  C, Vector-CANoe, DET Tool, Lauterbach Trace 32 Debugger, DV tool , Polarion, Plastics, Eclipse |

Embedded Software Engineer at Swift Navigation- San Francisco, CA [May 2018 to Dec 2019]

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| Project Name | **BSP Board Bring-up on Custom SoC Platform for ADAS Surround View System** |
| Details | Bring-up of ARM platform to configure input and output interfaces for displaying different surround view videos on the monitor. |
| Responsibilities  | * Bring-up and customization of Bootloader, Linux, QNX BSP and Peripherals
* Bring-up and customization of SoC Vendor Specific Boot loader
* Bring-up of MIPI-CSI-2 Camera interface, De-serializer/serializer configurations using I2C interface
* Bring-up of interprocessor communication between multi core platforms
* BSP Builds, Unit and Integration testing
* Requirement analysis, understanding and implementation
* Debugging and identifying root cause of issues
* Building the code, Unit and Integration testing
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| Technologies, Tools & Language |  C, Vector-CANoe, SoC SDK, Linux, Lauterbach Trace32 |

Embedded Software Engineer at Swift Navigation- San Francisco, CA [August 2017 to April 2018]

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| Project Name | **Park Pilot (GAC, JAC)** |
| Details | Park Pilot Project is automated Car Parking system. The sensors attached to the car bumpers emit ultra-sonic sound waves to detect the objects and helps to maneuver the car accordingly.  |
| Responsibilities  | * Requirement Analysis
* Configuration of communication stack for transmit and receive messages as per customer requirement
* Configuration of RTE for transmit and receive messages
* Implementation of CAN signal conversion for various transmit and receive messages
* Configuration of AUTOSAR DCM, DEM for customer garage diagnostics requirements
* Implementation of interfaces for DIDs and Diag services as per customer requirements
* Executing PDC tasks like QAC, Unit testing, Review, CQ update
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| Technologies, Tools & Language |  C, IC5000 Debugger from I system,Vector-CANoe, Enterprise Architecture, QAC |

 Software Engineer at Amptronics Systems Pvt. Ltd – Hyderabad, India [Jan 2014- Aug 2015]

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| Project Name | **Ticket Dispenser machine** |
| Details | This project is designed and developed to overcome the problems associated with selling of physical pre-printed tickets, and storing the pre-printed tickets. |
| Responsibilities  | * Requirement Analysis
* Preparing Requirement specification and Design Document
* Developing device driver for PMU unit to regulate power consumption
* Device Driver Development for I2C
* Fix bugs and rework
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| Technologies, Tools & Language | C, Eclipse, Philips Flash Utility |