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

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 |
| 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 |
| 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 |
| 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 |
| Technologies, Tools & Language | C, Eclipse, Philips Flash Utility |