Shreenivas Boodi

Technical Leader | Avin Systems Bangalore
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PROFESSIONAL SUMMARY

5 years of expertise in Adaptive AUTOSAR development. Effective communication and organizational skills, adept at meeting deadlines and swiftly identifying and resolving issues with minimal support.

SKILLS

- Working as Technical Leader at AVIN for Adaptive AUTOSAR Function Cluster Development.
- Comprehensive understanding of Adaptive AUTOSAR Architecture.
- Worked as a member of the WG-UCM in the Autosar Adaptive Platform consortium.
- Experienced in Development and Testing Update and Configuration Management (UCM & UCM Master) functional cluster.
- Experienced in programming languages such as C & C++.
- Experienced in Qualification/Functional testing using Vector CANoe tool, Gtest Framework.
- Experienced in build tools including Cmake, Make, SDK and Yocto Build Project.
- Experienced in the Docker environment for building, developing, running and debugging containerized application.
- Familiar with static analysis using Axivion Tool.
- Experienced in the Issue Tracking Systems like Jira.
- Experienced in the Code Collaboration & Version Control tool like Bitbucket.
- Led the team in R&D for SOAFEE Architecture.

WORK HISTORY

Technical Lead   JAN-2024 to Present
Avin Systems | Bangalore, IN

Adaptive Autosar Stack Integration and Development Support – VECTOR Adaptive Stack

Project Scope: Scope is to establish a sustainable integration and development support for Adaptive Autosar, utilizing QNX and the R20.11.

Process: Agile Methodology

Key Tools: Vector Adaptive Stack, Davinci Configuration Tool, PKCS#11 interfaces.

Responsibilities:
- Leading a team of two people for integration of test applications for functional clusters Crypto and Diagnostic Manager.
- Involved in base setup and integrating PKCS#11 crypto provider with Vector Adaptive Crypto stack.
- Supporting a UCM team for integrating test application with Vector Adaptive UCM.

Technical Lead
JAN-2023 to DEC-2023

Avin Systems | Bangalore, IN

Contribution to AUTOSAR Consortium-2023

Project Scope: Participation in the AUTOSAR consortium project on behalf of specific customer and SOAFEE Architecture R&D.

Process: Agile Methodology

Key Tools: GitLab, Yocto Build Environment, Jenkins, Docker, VS code and Clang format.

Responsibilities:
- Involved in implementing few new requirements for UCM Master 22-11 specification.
- Managed a team of one member for R&D on SOAFEE Architecture.

Software Engineer
JAN-2022 to DEC-2022

Avin Systems | Bangalore, IN

Qualification Test Framework Development R20-11

Project Scope: Development of Qualification Test Framework for UCM SWC based on AUTOSAR R20.11 using Vector CANOE testing tool.

Process: Waterfall Methodology

Key Tools: CANoe, vTestStudio, Yocto Build Environment, CodeBeamer, Atlassian Tool chain (Jira & BitBucket), Jenkins, Docker, Adaptive Configuration Tool (ASTRA), VS code and Clang format.

Responsibilities:
- Developed Software Requirement Specification(SRS) document for UCM & UCM Master.
- Developed test application and middleware application for the qualification testing for the UCM & UCM Master.
- Developed Qualification Test Specification document for the UCM & UCM Master.

Software Engineer   **MAY-2021 to DEC-2021**

Avin Systems | Bangalore, IN

OTA Demonstrator

Project Scope: Update of ECU Software from a Backend via OTA Client.

Key Tools: Adaptive Configuration Tool (ASTRA), Yocto Build Environment.

Responsibilities:
- Configured and Developed an OTA client application to download Vehicle Package and Software Package and to transfer it to UCM Master

Software Engineer   **APR-2020 to APR-2021**

Avin Systems | Bangalore, IN

Adaptive Platform FCs and Tools – Upgrade to 20.11 AUTOSAR Specification

Project Scope: Scope is to upgrade UCM to 20.11 AUTOSAR Specification and development of UCM Master.

Process: Agile Methodology

Key Tools: Adaptive Configuration Tool (ASTRA), Yocto Build Environment, Valgrind Memcheck, Gtest Framework, CodeBeamer, Axixion tool, Atlassian Tool chain (Jira & Bitbucket), Jenkins, VS code and Clang format.

Responsibilities:
- Involved in the development of Software Requirement Specification(SRS) document for UCM & UCM Master.
- Involved in the implementation of few requirements for UCM Module.
- Involved in the unit implementation of UCM Master.
- Involved in the development of test application and middleware application for the functional/qualification testing for the UCM & UCM Master.

Associate Software Engineer   **OCT-2019 to MAR-2020**

Avin Systems | Bangalore, IN

Adaptive Platform FCs and Configuration Tool - Production Intend Phase (19-11)

Project Scope: Requirement analysis, Design, Development and Testing for Adaptive AUTOSAR FCs.

Process: Agile Methodology

Key Tools: Adaptive Configuration Tool (ASTRA), CodeBeamer, Axixion tool, Atlassian

Tool chain (Jira & Bitbucket), Valgrind Memcheck and Jenkins.

Responsibilities:
- Involved in the development of Software Requirement Specification(SRS) document for UCM module.
- Involved in the configuration of UCM and UCM integration test application.
- Involved in the static analysis using Axivion tool.
- Involved in the analysis of memory leakage using Valgrind Memcheck tool.

EDUCATION

Bachelor of Engineering | Electronics and Communication Engg.
Angadi institute of Technology and Management
Belagavi, Savagaon.

TOOLS

Compilers
- GCC, QCC

Testing Tools
- Vector CANoe Tool, Gtest

Emulators
- QEMU

Design and Modeling
- Code beamer

Version Control
- GIT, Bitbucket

Static code analysis
- Axivion

Integrated Development Environment
- VS code

PROGRAMMING

Embedded C, C++ (11/14)

I, hereby declare that the information furnished above is correct to the best of my knowledge and belief.

Shreenivas Boodi   Place: Bangalore