



Somnath Manik Holkar

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ABOUT ME

Specialization in Development of Automotive Software for Classic and Adaptive AUTOSAR

WORK EXPERIENCE

02/10/2022 – CURRENT Ingolstadt, Germany

PRODUCT OWNER AVIN SYSTEMS GMBH

Development of Motionwise Product for ADAS/AD Project as below

- Developed the Serializer/De-Serializer component for Motionwise Product
- Developed customer specific solution for S2S(Signal To Service Translation)
- Developed the AUTOSAR E2E module for customer ara::com
- Developed using C++11/14 and followed the ASPICE process for development of V model
- The code generator developed in Python
- Polarion, PlantUML and Sphinx tool used as ALM and for documentation
- Unit Testing using GTest
- CTC++ used for code coverage (Statement, branch and MC/DC coverage)
- Parasoft tool used for static analysis
- CMake and Conan packaging for delivery
- Followed SAFe Agile for Development using Jira, Bitbucket, Scrum
- Followed the ASPICE guidelines to develop these leaf components
- Good Understanding about the CI/CD
- NXP RDB2 is used for testing Performance Host and Safety Host
- Used Vector Microsar (Adaptive Autosar Stack from Vector)for integration
- Used Linux OS (POSIX OS)and QNX OS for building the project
- The solution delivered to OEM ADAS/AD project and Supported in migration/integration of ADAS middleware

20/04/2015 – 10/01/2018 Pune, India

SOFTWARE ENGINEER AVIN SYSTEMS PRIVATE LIMITED

Development of Classic AUTOSAR Multicore Safe OS

- Requirement Analysis of AUTOSAR Multicore Safe OS Specification
- Design and Coding for below units in Embedded C language and assembly language
 - OsTask, OsISR, OsResource, OsEvents, OsAlarm, OsScheduleTable, OsHooks, OsSpinlock
 - Timing and Memory Protection
- Developed according to ISO26262 Functional Safety standard
- Developed Code Generator in Xtend(Java) with ARTOP libraries
- Unit Testing using IBM RTRT Tool
- AUTOSAR Multicore Safe OS ported different automotive grade microcontroller like RH850 F1H, RH850 F1L, RH850 F1L, RH850 E2X and Infineon Tricore TC27xx

10/01/2018 – 01/10/2022 Pune, India

TECHNICAL LEADER AVIN SYSTEMS PRIVATE LIMITED

Development of Adaptive AUTOSAR Functional Clusters like

- ara::com(SOME/IP, IPC)
- Diagnostic Management(ara::diag)
- Platform and Health Management
- Update and Configuration Management

- Execution Management
- Requirement analysis and Design for above mentioned Functional clusters
- Developed using C++11/14 language
- Codebeamer and Enterprise Architect is used as ALM Tool and ULM tool
- Axivion is used for static analysis tool
- GTest used for unit testing
- Linux CMake,Yocto build and Docker Container is used for building the project
- Ported Adaptive AUTOSAR to NXP S32V234, Xilinx ZCU 102/104, Nvidia Xavier and Raspberry Pi hardware
- CANoe, CAPL Scripting and vTESTstudio used for Automated Qualification Testing
- Used QNX and Linux build
- Followed ASPICE Process and produces all required documents for audit

● **EDUCATION AND TRAINING**

01/09/2009 – 10/06/2013 Ahmednagar, India
BACHELOR OF ENGINEERING IN ELECTRONICS AND TELECOMMUNICATION GH Raisonni College

01/09/2014 – 10/03/2015 Pune, India
ADVANCE DIPLOMA IN EMBEDDED SYSTEMS CDAC ACTS

● **LANGUAGE SKILLS**

Mother tongue(s): **MARATHI**

Other language(s):

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
ENGLISH	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user