

BLR_RD_REP_HMI_Architect

Your tasks

As a HMI Architect, following are the primary roles and responsibilities.

- Responsible for developing HMI software for automotive instrument clusters and head up displays.
- Analysis of customer requirements in terms of HMI performance, quality, and functionality
- Elaboration and definition of HMI concepts based on internal platforms and constraints.
- Creation of design guidelines with HMI focus
- Design and development of complex HMI
- Responsible for the quality and on-time delivery of your work-products throughout the software development lifecycles
- Debugging and error analysis, implementation of corresponding module, integration and unit tests and creation of further accompanying documentation.
- Implementation of OEM specific functions into an existing framework
- Requirement Analysis and Derive SW deliverables.
- Perform relevant tests like Static and Dynamic tests to ensure quality of deliverables.
- Following SW life cycle management process as per BA / Company level standards

Your profile

Mandatory Skills:

- Good experience in Instrument cluster/Infotainment HMI design and development
- Multiple years of experience in the Software development for Embedded Software in the automotive industry
- HMI architecture and framework and state machine development
- Experience with real-time operating systems on embedded microcontrollers
- Experience in model-based design and implementation of GUI and its logic & control for embedded systems as well as the associated tools like, TRAVIOE, KANZI & CGI STUDIO.
- Experience in SW development processes according to CMMI and ASPICE
- Solid experience in Software Sub-/System- and Module Design as well as in UML, XML, Python, C, C++, and Embedded C++
- Knowledge in C#, VBA, and OpenGL preferable
- Experience in embedded development tools (emulators, analyzers, oscilloscopes, etc.) as well as configuration management tools and concepts and formal analysis & design experience preferred.
- Good knowledge of using Continuous Integration Tools (GIT, Jenkins) as well as Requirements Engineering Tools (Doors), Change Management (Jira) and Canoe



Job ID
REF52115W

Location
Bengaluru

Leadership level
Leading Self

Job flexibility
Hybrid Job

Legal Entity
**Continental Automotive
Components Private Ltd.**

- Familiar with MISRA C rules Static analysis (QAC) tool
- Organized and analytical approach to problem solving.
- Experience in Debugging with Hardware Interfaces.

Additional Skills: (Good to have)

- Experience with tools like GIT/Gerrit/Jenkins and AGILE methodologies will be an advantage.
- Experience in tasks tracking tools like JIRA/ALM
- Assembler Programming (PowerPC would be advantage)
- SW version management knowledge would be an advantage.
- Experience in Requirements management using Doors.
- Good Knowledge in Shell, Python or Perl [Anyone]
- Good Communication Skills

Our offer

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About us

Continental develops pioneering technologies and services for sustainable and connected mobility of people and their goods. Founded in 1871, the technology company offers safe, efficient, intelligent and affordable solutions for vehicles, machines, traffic and transportation. In 2022, Continental generated sales of €39.4 billion and currently employs around 200,000 people in 57 countries and markets.

The Automotive group sector comprises technologies for passive safety, brake, chassis, motion and motion control systems. Innovative solutions for assisted and automated driving, display and operating technologies, as well as audio and camera solutions for the vehicle interior, are also part of the portfolio, as is intelligent information and communication technology for the mobility services of fleet operators and commercial vehicle manufacturers. Comprehensive activities relating to connectivity technologies, vehicle electronics and high-performance computers round off the range of products and services.