

AJINKYA METKAR

GLOBAL SOFTWARE SAFETY EXPERT / SAFETY MANAGER



PROFILE

I am a talented, ambitious and hardworking individual, with broad skills and 4-year experience in Requirement Engineering, Software Safety and leading projects as a Software Safety Expert. Furthermore, I am adept at handling multiple tasks on a daily basis competently and at working well under pressure. A key strength is communication; building strong relationships with people in order to deliver the best results.

CONTACT

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CO-CURRICULAR

- Finite Element Method elemental analysis using ANSYS package.
- An introduction to MATLAB coding for Computational Fluid Dynamics & Applications.
- Participated in 15th International Conference on Science, Engineering and Technology.
- Participated in 16th International Conference on Science, Engineering and Technology.

EDUCATION

M.Tech (Mechatronics), VIT Vellore
2017 - 2019

Sinhgad Academy of Engineering, Pune
2012 - 2016

WORK EXPERIENCE

Global Software Safety Expert, Safety Manager at Hella India Automotive

Feb 2023–Present

- Develop and implement the functional safety strategy and roadmap, aligning with automotive safety standards such as ISO 26262.
- Define and establish functional safety processes, procedures, and guidelines in compliance with industry standards.
- Ensure the quality and effectiveness of the functional safety processes, conducting regular audits and assessments to identify areas for improvement.
- Drive continuous improvement initiatives to enhance the safety process maturity, efficiency, and effectiveness.
- Collaborate with stakeholders to identify safety goals and requirements, ensuring their proper definition, documentation, and traceability.
- Conduct functional safety assessments, including hazard analysis and risk assessments (HARA), safety requirements analysis, and safety concept evaluation.
- Lead and facilitate the creation and maintenance of safety plans, safety cases, and safety analyses.
- Guide and review the development and validation of safety mechanisms, safety architectures, and safety-related hardware and software components.
- Collaborate with system architects and engineers to ensure the integration of functional safety requirements into the overall system design.
- Coordinate and support the functional safety assessment and certification activities with external certification bodies.
- Plan and execute internal training programs to educate and upskill team members and the wider company on functional safety principles, processes, and tools.
- Stay up-to-date with the latest advancements and changes in functional safety standards and regulations, and proactively apply them to improve the company's safety practices.
- Provide guidance and support to project teams in the implementation of functional safety processes throughout the product development lifecycle.
- Monitor safety performance indicators and metrics, identifying trends and areas of concern, and taking appropriate corrective actions.

HONORS-ACHIVEMENTS

- Actively participated in INDO-ASIAN SOLAR CHALLENGE in LPU, Punjab.
- Actively played National Level Badminton Championships [2013 - 2015].
- Awarded with fastest smash [Maharashtra Badminton Association].
- Secured 1st position at National Level Volleyball Championship.
- Secured 1st position in intercollege events including carom, table tennis

SW Project Lead at *Bosch Global Software Technologies*

March 2022–Feb 2023

- Development and implementation of defined technical content acc. to project targets (ASPICE/ISO26262/BSW/Model-based)
 - Risk management within discipline scope and support of SYSPL/PJM
 - Project planning and tracking within discipline scope, cross-functional aligned between the disciplines
 - Evaluation and planning of technical requirements and estimation of effort within project scope
 - Consulting OEM on technical discussions within project scope
 - Preparation of releases within the project scope (e.g. Level x)
 - Implementation of the technical requirements in the project acc. to specification, plan, defined processes and regulations within discipline
 - Take design and implementation decisions to fulfil the technical requirements in the project within the defined boundaries
 - Accept / reject technical requirements in the customer project
- Handling Projects: FAW; BYD

SW Requirement and System Engineer at *Bosch Global Software Technologies*

Jan 2020–March 2022

- Deriving system requirements and architecture for vehicle functions
- Evaluation of system requirements for System Function and Function Contribution
- Allocate elements and interfaces/signals for Higher Level Design
- Developing system verification criteria (VC) for specification of testing strategy
- Specification of Data Module (DM) for including testing parameters
- Modelling System Function Architecture (FA) and Function Interface (FI) diagrams with Information Classes
- Functional Safety requirements according to ISO26262 & attributes like ASIL, ML
- Managing overall system requirement traceability using tools such as IBM DOORS (System and SW requirements) and Enterprise Architect (EA) for developing system architectural design
- Competent in the usage of tools including IBM Rational DOORS, Clearcase, ClearQuest for the management of requirements.
- Automotive system and design experience for requirements capture and management.
- Knowledge of processes ISO26262 and Automotive SPICE.
- Manage stakeholder requirements. Interfacing with customers, responsible for collecting and configuring requirements within configuration management tool and managing change to those requirements.
- Requirements analysis: Using the requirements manager tool, responsible for structuring the requirements, leading requirement analysis activities with the team and for developing and maintaining system level requirements.
- Analysis of Change Requests in Clear Quest for the Enrollment System and work with the customer to determine the disposition of these Change Requests.