Akash Pawar

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Designation: Sr.Software Engineer

Career Goals:

To be associated with progressive organization that utilizes my knowledge and skills. Seeking a position that provides opportunity to learn new things and enhance my existing skills.

Summary:

- Currently working as a **Sr.Software Engineer** in KPIT, Pune from **March 2020 to April 2024.**
- Overall experience of **4.1 Years** in automotive domain as **Software Engineer.**
- Proficient in MBD on **MATLAB, Simulink** and **State flow.**
- Comfortable with **V Model** of software development.
- Experience on **Coverage Analysis(MCDC).**
- Experience in **MIL, SIL** testing (Unit level).
- Working experience of **Auto-code generation** using Simulink Coder**(RTW).**
- Working experience of **Ground Truth Labelling (Sensor Fusion).**
- Experience in **Static Code Analysis**.
- Good analytical and problem solving skills.
- Knowledge of **JIRA.**
- Knowledge of **Python.**
- Basic Knowledge of **M-Script.**
- Basic Knowledge of **C Language**.
- Basic Knowledge of **AUTOSAR.**

Skill Toolset of MBD:

SKILLS	TOOLS
MATLAB	MATLAB(2018b,2020b)
MIL/SIL-Unit Testing/ Development	MATLAB, Simulink, Stateflow, Simulink-Signal Builder, MBT tool, Simulink Design Verifier.
Version Control	SVN

Work Details:

01.Project	Door Lock System and Driver Input Management.
Description	In this project will have extract the unit models from Integrated model and perform the Unit Testing on the models and coverage analysis for those models.

Key Roles	• Extraction of Unit models from main model using MAT tool.
	• **MIL Testing:**
	  • MIL harness and MBD sheet creation.
	  • Test case writing.
	  • Analysis of test cases.
	  • MIL CD coverage analysis.
	• **SIL Testing:**
	  • Auto Code Generation.
	  • Legacy File creation.
	  • S-Function and SIL harness.
	  • SIL CD Coverage analysis.

Tools Used	**MAT Tool, Simulink Design Verifier.**

02.Project	Information Cluster
Description	The objective of this project is to provide various displays and indications on the vehicles information cluster that enables driver to operate the vehicle safely.
Key Roles	• Analyzing and understanding of software requirements. • Developing the model as per the requirement. • Unit testing (MIL) for model and verify model at unit level. • Coverage analysis (MCDC) of unit model. • Verify the MAAB guidelines. • Reviewing the design changes and resolving related issues. • Auto code generation by RTW.
Tools Used	**MATLAB/Simulink/ Stateflow,Model Advisor (MAAB), RTW.**

Education Qualifications:

Course / Technology	University	Passout Year
B.E(Bachelor of Engineering)	Sant Gadge Baba Amravati University	2018