



Harshit Agarwal

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ABOUT ME

1. 2+ Years of experience in Automotive Embedded Software Development.
2. Strong knowledge of Data structure and Algorithm, Java, MySQL, Spring Boot Framework, Spring Security, Hibernate, JPA, Angular, HTML/CSS (Basic), MATLAB, FTIDE, Polyspace, Simulink/Stateflow, Jira, Git, Maven.
3. Experience in RESTful API design and development
4. Experience in developing the Web based applications using Java Technologies.
5. Experience in using IDEs such as Eclipse and Visual Studio.
6. Strong interpersonal and communication skills with an ability to work with team and keep them motivated.
7. Ability to achieve project goals within project constraints such as scope, timing and quality.
8. An energetic, self-motivated team player with refined designing and analytical skills.
9. Techoholic, Quick Learner, Explorer, Problem Solver.

WORK EXPERIENCE

Software developer

Tata consultancy services limited [5 Aug 2021 – Current]

City: Pune

Country: India

1. **Central Power Distribution Box. (Ford Motors) :**

- Good understanding of requirements and implementation of various body features.
- Derived design requirements based on Technical Safety Requirements and created Functional Specification deliverables for different functionalities.
- Analyzed markups, created FS (Functional Specification), Data Dictionary, Models and related deliverables, for CPDB.
- Found bugs in CPDB Module did troubleshooting of models and suggested corrections.
- Involved in support and maintenance of various Foundational Software sections of FS.
- Developed Integrated model and MIL (Model In Loop) and SIL (Software In Loop) testing of multiple functionalities of CPDB features in Simulink Autosar (FNV3/FNV2) architecture.
- Software Component creation, Polyspace analysis, Code review, automating processes through MATLAB scripting, Debugged Models, Target linking by using HDL coders to generates HDL codes, Validate and Verification, Synthesis RTL logic.
- Supported the process setup for testing for Autosar-compliant models and code at various levels like Unit Level, Software Component Level and Composition Level Explored back-to-back testing at software component level through Simulink Test (MATLAB toolbox).
- Explored code generation through embedded coder.
- Developed Non-Autosar Integrated Model creation and testing for the same.
- Calculating estimated hours, creating Jira task and assigning them to the team.
- MATLAB 2018b, 2016b and Polyspace 2019b used.

2. **Automation Team. (Ford motors) :**

- Supported setting up DevOps tools and scripts for Unit Level, Software Component Level and Composition Level software development and validation.

3. **FTIDE. (Ford motors) -**

- Creating FTIDE test suits for features of car design and test the functionalities and check test results in log analysis tool and improve test efficiency and cover test specification.

4. **Power Bus Output Transform (PBOT). (Ford motors) :**

- Analyzed FS (Functional Specification), ARXML, SLDD and related deliverables, for PBOT.

- Developed model for different zonal, unit testing using test harness, exporting result using Simulink test manager, Run Model Advisory Check and Build Code.
 - Software Component creation using ARXML for different zonal. SLDD linking, Validating Code Mapping, Run Model Advisory Check, unit testing using test harness, SIL (Software In Loop) testing, Build Code, Polyspace analysis, Code review.
 - Created M3 Cfg signal in WinDx tool and exporting the same in SLDD and another format.
 - MATLAB 2021b, 2022b and Polyspace 2021b, 2022b used.
 - Working closely with senior members of the team, support teams to provide support and better understand company requests. Manage Technical issues, Development and implementation of full life cycle of application.
5. Technologies used in this project are MATLAB, C, Polyspace, FTIDE, Automation Tools, Visio, Digital Electronics, MS Office, Version control (Git), GitHub, SharePoint, Agile, SCRUM, JIRA. etc.

EDUCATION AND TRAINING

Bachelor of Technology

Hindustan College Of Science and Technology (AKTU) [1 Jun 2017 – 17 Aug 2021]

City: Mathura

Country: India

Final grade: 8.41

Senior Secondary School

Bhartiya Vidhyapeeth Bal Bharti (CBSE) [1 Apr 2015 – 28 May 2017]

City: Agra

Country: India

LANGUAGE SKILLS

Mother tongue(s): **Hindi**

Other language(s): **English**

DIGITAL SKILLS

Java / Spring (Spring Boot, Spring Security) / Java (Springboot) / SQL, My SQL / Hibernate / Angular / HTML / Object-Oriented Programming / Git / Maven / Microsoft Office / MATLAB / MIL/SIL Testing / MATLAB Scripting / Simulink, Target Link / HDL Coder / Agile (Scrum) / Jira / MS Office (MS Word, MS Excel, MS Outlook, MS PowerPoint, MS Access, MS OneNote, MS Visio, MS Teams)