

Rutuja .G. Sagare 

Engineer seeking roles in Software Engineering, Embedded Development, Project Management, Functional Testing, Unit Testing, Requirement Gathering, Technical Support, Production Support, Coding, Debugging, Embedded C, Microcontroller, Simulink, Eclipse, MATLAB

Current Designation: Software Engineer

Total Experience: 4 Year(s) 2 Month(s)

Current Company: JCB

Notice Period: Currently Serving Notice Period

Current Location: Pune

Highest Degree: MBA/PGDM [Information Technology]

Pref. Location: Bengaluru / Bangalore, Mumbai, Pune

Functional Area: IT Software - Application Programming / Maintenance

Role: Software Developer

Industry: Auto/Auto Ancillary

Marital Status: Single/unmarried

Key Skills: Software Engineer, Software Developer, Software Engineering, Embedded Development, Project Management, Functional Testing, Unit Testing, Requirement Gathering, Technical Support, Production Support, Coding, Debugging, Embedded C, Microcontroller, Simulink, Eclipse

Verified : Phone Number | Email - id

Last Active: 21-Jan-21

Last Modified: 21-Jan-21

Summary

- * Total 4 years of experience in Automotive domain .
- * Working Professional at KSD deputed onsite at JCB since Feb 2019.
- * Worked at KPIT since June 2016 to Feb 2019.
- * Worked on MATLAB, SIMULINK, Stateflow.
- * Elementary knowledge and hands-on experience on RC4-5 Bosch Controller and BODAS Tool.
- * Worked on CANAnalyzer and J1939 CAN Communication protocol.
- * Worked on AUTOSAR library Development in Embedded C.
- * Worked on Unit Testing and Functional Testing of AUTOSAR LIBRARIES.
- * Elementary Knowledge in ASIL-D, FMEA & FTA development.
- * Elementary knowledge of AUTOSAR.

Work Experience

JCB as Software Engineer
Feb 2019 to Till Date

Working Onsite at JCB. Module Lead for the project designated to Model Design and MIL for the application Control Logic and also monitor the off-board and on-board Testing.

ROLES AND RESPONSIBILITIES

- * Worked as a Module lead for the deputed project (Posicon) at JCB had Responsibility to Design Controls application and off-field as well as on-field Test Monitoring and Result Analysis.
- * Worked on PID controller Tuning (through simulation and on actual machine)
- * Performed Functional Testing using CANAnalyzer and BODAS Environment.
- * Developed codes for AUTOSAR libraries, prepared Test Vectors and done testing for the same.
- * Reviewed the implemented codes and the Test Vectors for those codes as per MISRA C and Autosar Coding Standards.
- * Given technical and professional suggestions to the team members as and when needed.
- * Discussed and implemented novel technical and process related suggestions with the Tech lead and SME.
- * Worked on Model Based Development and CAN J1939 DATALINK communication for Cummins engine modules.

KPIT Technologies as Software Engineer
Jun 2016 to Feb 2019

ROLES AND RESPONSIBILITIES

- ? Developed codes for AUTOSAR libraries, prepared Test Vectors and done testing for the same.
- ? Reviewed the implemented codes and the Test Vectors for those codes as per MISRA C and Autosar Coding Standards.
- ? Given technical and professional suggestions to the team members as an when needed.
- ? Discussed and implemented novel technical and process related suggestions with the Tech lead and SME.
- ? Worked on Model Based Development and CAN J1939 DATALINK communication for Cummins engine modules.

PROJECT #1

Title :AUTOSAR Math Library Development
Role : Developer
Environment : Embedded C.
Tools : Micro Soft Visual Studio, Tasking Compiler, Tessa, QAC 8.1.1-R, Rhapsody.
Responsibilities : Responsibility of end to end development of AUTOSAR Math Library modules, which includes Requirement gathering/understanding, Design, Coding, Unit Testing, Functional Testing & Documentation for the same.
Description : Development of AUTOSAR Math Libraries. We developed Following modules for Autosar v4.2.2: MFX, IFX, IFL, MFL, EFX, and E2E.

PROJECT #2

Title : Dynamic Systems and Controls?
Role : Developer
Environment : MATLAB & SIMULINK, Embedded C
Tools : MATLAB & SIMULINK , Polyspace
Responsibilities : Responsibility of end to end development of vehicle engine modules, which includes Request or defect analysis, MATLAB/Embedded C development, Functional testing, Polyspace & documentation for the same.
Description : Worked on Model Based Development and CAN J1939 protocol DATALINK communication for Cummins engine modules.

Education

UG: **B.Tech/B.E. (Electronics/Telecommunication)** from **Kolhapur Institute of Technology, Kolhapur** in **2016**

PG: **MBA/PGDM (Information Technology), Correspondence/Distance Learning** from **LN Welingkar Institute of Management, Mumbai** in **2021**

Other Qualifications/Certifications/Programs:

Mathworks

IT Skills

Skill Name	Version	Last Used	Experience
Embedded C		2018	1 Year(s) 8 Month(s)
RHAPSODY			0 Year(s) 2 Month(s)
TESSY			1 Year(s)
SIMULINK	2017	2018	1 Year(s) 5 Month(s)
QAC	8.4	2017	1 Year(s) 8 Month(s)
MBD			1 Year(s) 5 Month(s)
MATLAB		2020	1 Year(s) 5 Month(s)
WINDOWS			
Visual Studio, KEIL UVision			

Languages Known

Language	Proficiency	Read	Write	Speak
English				
Hindi				
Marathi				

Projects

Project Title: JS220 Machine Control ECU

Client: JCB

Nature of Employment: Contractual

Duration: May 2020 - Till Date

Project Location: Pune

Onsite / Offsite: Onsite

Role: Test Engineer

Team Size: 4

Skill Used: CANAnalyzer, BODAS-design tool, Eclipse IDE, Verification and Validation Plan Preparation, Bug Finding and Bug Reporting

Role Description: Responsibility to analyze the requirements and develop the Verification and Validation Plan and perform Functional Testing and Bug finding and Bug Reporting.

Project Details: Tools : CANAnalyzer, BODAS-design tool, Eclipse

Responsibilities : Responsibility to analyze the requirements and develop the Verification and Validation Plan and perform Functional Testing and Bug finding and Bug Reporting.

Description : Working on the Excavator Machine Control ECU that has application controls such as monitoring hydraulic oil temperature , Control Isolation, Auto Idle state, Travel alarm etc.

Project Title: JS220 POICON -Positive Pump Control System

Client: JCB

Nature of Employment: Contractual

Duration: Feb 2019 - Till Date

Project Location: Talegaon, Pune

Onsite / Offsite: Onsite

Role: Module Leader

Team Size: 4

Skill Used: MTLAB, SIMULINK, State flow, M-Scripting, Model Advisor , Requirements Traceability, Excavator Basics, CANAnalyzer

Role Description: Responsibility to develop the control application and perform the MIL and Code Coverage for the same. Performing the Model Advisor checks and maintaining the Requirement traceability i

Project Details: Environment : MATLAB, SIMULINK, Stateflow

Tools : MATLAB & SIMULINK, CANAnalyzer, BODAS-design tool, Eclipse

Responsibilities : Responsibility to develop the control application and perform the MIL and Code Coverage for the same. Performing the Model

Advisor checks and maintaining the Requirement traceability in

MATLAB environment. Monitoring the off field

(Functional Testing) and on field (Machine Testing) Testing.

Description : Working on the Positive Pump displacement control System of Excavator Machine.

Project Title: Dynamic Systems and Controls

Client: Cummins

Nature of Employment: Full Time

Duration: Oct 2017 - Jul 2018

Project Location: Pune

Onsite / Offsite: Offsite

Role: Programmer

Team Size: 11

Skill Used: Matalab , Simulink , Embedded C, PCAN, Poly space.

Role Description: End to end development within the vehicle engines, which includes

Request or defect analysis, MATLAB/embedded C development, Functional testing, Polyspace & documentation for the same.

Project Details: Environment : MATLAB & SIMULINK, Embedded C

Tools : MATLAB & SIMULINK , Polyspace

Microcontrollers : Acadia 2304.

Responsibilities : Responsibility of end to end development within the vehicle engines, which includes

Request or defect analysis, MATLAB/embedded C development, Functional testing, Polyspace & documentation for the same.

Description : Model Based Development within the engine models and CAN J1939 communication codes for an vehicle.

Project Title: AUTOSAR Math Library Development

Client: Microfuzzy-BMW

Nature of Employment: Full Time

Project Location: Bangalore

Role: Programmer

Duration: Nov 2016 - Oct 2017

Onsite / Offsite: Offsite

Team Size: 8

Skill Used: Embedded C coding development

Role Description: Responsibility of end to end development of AUTOSAR Math Library modules, which includes Requirement gathering/understanding, Design, Coding, Unit Testing, Functional Testing & Documentation for the same.

Project Details: Environment : Embedded C.

Tools : Micro Soft Visual Studio, Tasking Compiler, Tessa, QAC 8.1.1-R, Rhapsody.

Microcontrollers : Infineon TC277X Tricore.

Responsibilities : Responsibility of end to end development of AUTOSAR Math Library modules, which includes Requirement gathering/understanding, Design, Coding, Unit Testing, Functional Testing & Documentation for the same.

Description : Development of AUTOSAR Math Libraries. We developed Following modules for Autosar v4.2.2: MFX, IFX, IFL, MFL, EFX, and E2E.

Affirmative Action

Category: General

Physically Challenged: No

Work Authorization

US Work Status: Need H1 Visa

Countries: India

Job Type: Permanent

Employment Status: Full time