Akshay Dhole

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Pune, Maharashtra

## Summary

An Embedded Developer & Tester engineer with 6+ years of experience in Model Based Design. A Creative thinker who is highly organized, analytical, enjoys solving problems and team oriented personality.

## Career Summary

Total 6+ Years of experience in the automotive domain.

6+ Years of experience in MBD development and testing MIL/SIL.

Good coordination and analytical skills, ability to grasp issues quickly and from action plans. Ability to work with a team in a positive and collaborative manner.

Experience

# Sr. Software Engineer

KPIT Technologies Pvt Ltd • Pune, Maharashtra 02/2022 - Present Experienced Model Based Developer and Testing with over six years of experience in MATLAB. Excellent reputation for resolving problems and improving customer satisfaction.

Worked on reverse engineering developed requirements from the Simulink model. Analyze the requirements thoroughly.

Develop the model based on the received requirements.

Worked closely with clients to understand the requirements and discuss ideas, problems and solutions. Implementation of required changes into the model in case of change in requirements.

To generate code using Embedded Coder.

Writing of Test cases based on received requirements. Veriﬁcation and Validation using unit testing MIL/SIL testing. Generate Coverage reports for the model.

Pass the model with MAAB and MISRA C Guidelines.

# Model Design Engineer

AVI Worldwide Pvt Ltd • Navi Mumbai, Maharashtra 03/2019 - 01/2022

The experience includes working on MATLAB - Model based development for AVI Worldwide Pvt. Ltd. Veriﬁcation and validation using unit testing and MIL/SIL testing.

Developed models are as per guidelines set by MAAB using model advisor tool. Creating the model as per client requirement, MIL, C code generation, MIL and SIL.

# Engineer

Reflex Technologies Pvt Ltd • Navi Mumbai, Maharashtra 03/2018 - 02/2019

Create high-level and low-level requirements for the project. Veriﬁcation and validation using unit testing and MIL/SIL testing. To generate code using Embedded Coder.

Generate Coverage reports for the model.

To work on small activities related to the project.

## Projects

### Sensor and Actuators

The purpose of Sensors and actuators are two essential components of smart systems that work together to respond to their environment. A sensor detects or measures physical properties such as temperature or pressure and converts them into signals that are transmitted to a controller.

Worked on different features of Actuator Controls.

Worked on prototype designing of resting position of Intake Air Throttle Valve. Developed features of diagnostics like OOR and CSERS as per customer requirements. Developed requirements from the Simulink model.

Spend time in understanding the requirement of the client.

Worked closely with the client to discuss various ideas/solutions and issues. Developed the model according to the requirement.

Reviewed the work-product created by the team before delivery.

### Adaptive Headlight System

Purpose of this project is to design Adaptive Headlight System for Vehicle.

Adaptive Headlight system is generally used in vehicle due to some drawbacks in Normal vehicle headlight such as when vehicle is taking turn that time for few second driver not able to the clear road.

According to weather condition parking lights should on. While detect the slope focus will automatically adjust.

Purpose of this project is to control the Light Distribution of the vehicle and improve Visibility. Contributed for software development and testing.

### Delivery Assist

Purpose of this project is to minimize the efforts and time for manual operations and to increase productivity. In Ordinary transit vehicle, Due to absence of delivery assist feature and Manual operation of all systems more time and efforts are utilized which reduces productivity. In lower visibility or night condition without Exterior lights Driver’s safety is compromised. To eliminate existing defects from ordinary transit vehicle and increase productivity we have introduced delivery assist feature. Button start ignition, Automatic Cabin lights & Cargo compartment lights ON/OFF, Exterior lights, Power Windows, Power Mirror. Environment: MATLAB/Simulink.

## Skills

MATLAB, SIMULINK, STATEFLOW, MIL/SIL, Agile, GitHub, AUTOSAR

## Languages

English, Hindi, Marathi (Marāṭhī)

Education

# Bachelor's of Engineering

Dr Daualtrao Aher College of Engineering • Karad, Maharashtra 05/2017

First Class.

12th

Mahatma Basweshwar College of Arts, Commers and Science • Latur, Maharashtra 05/2012

Second Class

## Personal Experience

Date of Birth : 2nd May 1995 Gender : Male

Material Status : Married

Nationality : Indian

## Strengths

Flexibility and Adaptability Time management Attention to Details Quality focused

Organised

## Declaration

I hereby declare that the information furnished above is true to the best of my knowledge and behalf. Date:-

Place:-