Kapil Bhoi

Automotive Model Based Design Engineer

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Pune 📍

3+ years of experience in Model-Based Development and MIL/SIL testing in Automobile Domain.

WORK EXPERIENCE

Model Based Design Engineer
Ethics Techno Services Pvt. Ltd.
Client – Bharat Forge
(Aug 2020 – Dec 2023)

TATA Elaxi
(*Dec 2023- Jan 2024)*

PROJECT HANDLED
Project Name: CRDI Engine
- Common Rail Direct Injection (CRDI) is an intelligent technology in which highly pressurized fuel is o injector through the Common Rail. We can achieve higher performance and as well as optimum fuel efficiency.

DESCRIPTION:
- The purpose of the project is to develop control logic and model of CRDI system and simultaneously verification and validation of model based on received requirements. Also, development of newly introduced features from client such as Identification of fault voltage, Detection of faulty fuel injector in Engine.

ROLES AND RESPONSIBILITY
- Analysis of requirements received from client.
- Interacting with client to resolve conflict in requirements.
- Development of model / Control logic based on requirement.
- Implementation of required changes into the model in case of change in requirements.
- Code Generation using embedded Coder.
- Manual Test scenario creation from specification.
- Back-to-back testing (MIL-SIL) for the developed model.
- Updating schedule of the task assigned and maintaining data for the delivery and tasks.

EDUCATION

Bachelor of Engineering I
6.83 CGPA
G.H. RAISONI COLLEGE OF ENGINEERING
Jalgaon, India.

Diploma in Engineering | 66.00%
Government Polytechnic, Jalgaon
Jalgaon, India.

Adarsh Vidyalaya, Kanalda
S.S.C. | 89.45%
Jalgaon, India.

TECHNICAL SKILLS

MATLAB, SIMULINK, STATEFLOW,

BASICS of C, Basics Of TPT, Embedded Coder,

Model Advisor, MIL-SIL, CAN, LIN

AREA OF EXPERTISE
- Analysis of received requirement.
- Development of control logic and modelTest case creation
- MIL-SIL Testing
- Problem solving and debugging.
- Passing and complying model with MAB Guidelines

CERTIFICATION

MATLAB ONRAMP,
SIMULINK ONRAMP,
STATEFLOW ONRAMP,
BASICS OF TPT.

LANGUAGES

English
Full Professional Proficiency

Hindi
Full Professional Proficiency

Marathi
Native or Bilingual Proficienc