

# SOUMYA DENGU

## Senior Engineer

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### ABOUT ME

Senior Engineer with 4 years of Experience in Automotive industry as a Model based Design Engineer (MBD) . Implement, Verify and validate (MIL, SIL) Engine components using MATLAB/SIMULINK and Targetlink. Good knowledge in Auto code generation Exposure to Model In Loop(MIL), Software In Loop(SIL) using TPT(Time partition Testing) and AMTT Tool and Reactis Good knowledge in Embedded C Experience in Requirement analysis design Development, Debugging and Deployment Good experience in MATLAB Environment. Experience in test case automation and test execution in dSPACE Test environment

### WORK EXPERIENCE

#### Tata ELaxsi Pvt Ltd- Senior Engineer Marelli (KLPS)

2021-NOW

- KLPS(Keyless Push start) is Developed as per the requirement in MATLAB Environment using SIMULINK
- AS team member Understanding the requirement of the project.
- In this project I have involved testing, development and debugging activities such as SIL/MIL/Reactis.
- Worked on polyspace to check coding standards and MISRA
- Worked on autocode generation using Embadded coder Hands on experience on functional safety FMEA
- Requirement analysis and creating model or modification based on change request
- Creation of test cases and testing using SIMULINK test tool.

#### PNMS (Power Network Management System)

- For PNMS project I got an opportunity to work in MBRDI office local onsite
- Worked in body control module
- Involved in testing activities such as SIL/MIL using TPT Tool.
- Analyse requirement preparing test cases in TPT 19 tool.
- Code generation using TargetLink.
- Perform Peer and expert review.
- Prepare a deviation report for uncovered paths and achieve maximum MC DC coverage

#### HVAC (Heating and cooling control)

- Understand the system and software requirements.
- Perform manual and automated testing on HVAC systems.
- Verification and Validation of the SWC using TPT20 Tool.
- Validate the functionality of HVAC components such as temperature sensors, compressors, blowers.
- Run a test on software in Loop(SIL) and Model in Loop(MIL).
- Used m-scripts in project for automation

### EDUCATION

#### PDA COLLEGE OF ENGINEERING

2016-2020

BE in Electronics and Communication Engineering

### SKILL

- |             |                  |             |
|-------------|------------------|-------------|
| • Matlab    | • SIL/MIL        | • REACTIS   |
| • Simulink  | • TPT Tool       | • AMTT Tool |
| • Polyspace | • Target Link    | • JIRA      |
| • Redmine   | • PREEvision     | • SVN       |
| • Doors     | • Embadded coder | • GIT       |