

# Bavana Mamidi

## Senior Engineer – ADAS

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## Career Summary

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- 4.5 years of experience in software validation for Automotive domain for ADAS ECU
- Static Code Analysis for ISO26262 standards adherence for ADAS ECU
- System proficiency in various ADAS features like AEB, APA, RPA
- Hands-on experience in simulation tools such as MATLAB Simulink, Polyspace, TPT, Carmaker, QAC
- Growth oriented professional with willingness to learn new concepts and technologies.

## Work Experience: 1

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**Company** : Renault Nissan Technology and Business Centre India Pvt Ltd

**Duration** : 3 years (May 2018 to Aug 2021)

**Role** : ADAS Validation Engineer

## Work Experience: 2

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**Company** : Tata Elxsi

**Client** : ZF

**Duration** : 1.5 years (Aug 2021 to Present)

**Role** : Senior Engineer

## Projects Activities and Responsibilities

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### APA Validation

Worked as a system validation Engineer for Advance Park Assist (APA) for ZF\_ParkFn\_AlgValidation.

- Developing Test design and test specification for HIL Validation for APA and RPA (Remote Park Assist)
- Creating IPG CarMaker scenarios for the HIL Validation
- Unit Testing for APA components using TPT

Tools Used: TPT, Simulink, Matlab, IPGCarMaker, Doors

### AEB MIL Validation

Performed MIL Validations in ADAS ECU for Autonomous Driving of Renault cars

- Experience in Performing MIL Validations at SCRS level using TDD method to validate all the functional requirements
- Experience in MTR level validation for ADAS ECU using TPT
- Validation Coverage analysis for various components of software models
- Experience in creating Testcases in MATLABSLDV for different boundary checks
- Experience in using Reactis for Test case creation based on different software requirements

Tools Used: TPT, Simulink, Matlab, SLDV, Reactis, TDD

### SCA\_Fix for ADAS

Static Code Analysis of ADAS ECU for ISO26262 process adherence

- Experience in performing MISRA compliance check using QAC
- Experienced in run time check using Polyspace Code Prover
- Experience in MATLAB Auto Code Generation for software models
- Good knowledge on Model Based Design Rules and Guidelines (MBDR)

Tools used: MATLAB, QAC, Polyspace, Simulink, MXAM

## Technical Skills

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- **Software Application Skills:**

- MATLAB, Simulink, TPT, State flow, Polyspacecode Prover, Reactis, QAC, MXAM and Carmaker

Software Programming Skills: m-scripts, Excel VBAscripting, TPT coding

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Experience in configuration management tools such as JIRA, Git and SVN, Doors

## Other Activities and Responsibilities

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- Created automation m-scripts for process improvements in MATLAB
- Automated SCA MIL process which reduced processing time by 25%
- Active team player and taken responsibilities as a team SPOC for Quality check audits

## Achievements

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- Awarded best performance award for 2 consecutive years for contribution in software validation
- Awarded best contributor for Integrated Quality Management System (IQMS)

## Academic Background

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### Professional Diploma in Embedded System Design

2018

Cranes Varsity

Cranes Software international Ltd, Bangalore

### Bachelor of Technology (E.I.E)

2017

SREE VIDYANIKETHAN ENGINEERINGCOLLEGE, Tirupati

77.18%

*JNTU, Anantapuram*

### Intermediate (M.P.C)

2013

VIGNAN GIRLS JUNIOR COLLEGE, Guntur

91.90%

*Board of Intermediate Education*

### Class X

2011

KESHAVA REDDY PUBLIC SCHOOL, Nandyal

84.16%

*State Board of Secondary Education*

## Personal Details

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Father's Name: Mr.MuraliChandrudu

Marital Status: Married

DOB: 09.04.1996

Nationality: India

Gender: Female

Languages: English, Telugu, Tamil

Address: F1, Annai Arul Apartments 130, Silpathikaram street, Ganesh Nagar, selaiyur, Chennai -60073

## Declaration

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I declare that the above information is true and correct to the best of my knowledge and belief.

Bavana Mamidi