**ARUNKUMAR R**

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## Career Objective:

To acquire a challenging position in an environment where I can best utilize my expertisein resolving the problems in design development and testing towards the growth of the organization.

## Experience Summary:

- Currently Working in **ZF India Technology Center** as Senior Engineer from September 2022 to till date.

- Currently Working in **Bosch Global Software Technologies** as System TestEngineer from February 2021 to August 2022 through ANCIT Consulting.

- Deputed in **SQUBE Multi Systems** as System Test Engineer from March 2019 toJanuary 2021.

## Professional Summary:

- 4+ **years of Automotive experience as Embedded Test Engineer in Active Safety Systemsand Infotainment Testing.**

- **Good domain knowledge on ADAS systems and Infotainment system testing.**

- Experienced in Test Bench set up, Manual and Automated System Testing in SDLC (V model) &Defect Management System.

- Hands on experience in Cross functionality Testing and Regression Testing

- Good Knowledge in developing test cases for ADAS systems on bothAutomation and Manual Testing.

- Hands on experience in **Ultrasonic** and **Camera (NRCS)** and **Infotainment Systems.** Experienced in Functional and Non-Functional Testing of Active safety and Infotainment Systems.

## Technical Proficiency:

| | |
|---|---|
| Testing Tools | : Car Maker, CANoe, MATLAB |
| Management Tools | : DOOR's |
| Issue Tracking Tool | : JIRA, PTC Integrity |
| Programming Language | : C, Embedded C, Python |
| Protocol | : SPI, UART, CAN & UDS |

## Academic Qualification:

- Embedded System Training in Vector India PVT LTD, Chennai from July to January 2018 also certified in Embedded C Programming.

- Bachelor of Engineering in Electrical and Electronics Engineering (2015 – 2018) from Sri Krishna College of Engineering and Technology, Coimbatore.

- DIPLOMA in Electrical and Electronics Engineering (2012 – 2015) from Muthayammal Polytechnic College, Namakkal.

## Achievements:

- Certified ADAS Driver Assistance Systems Beginner in Udemy

## Project Details:

1. Project Name: **Parking and Maneuvering Assist (NRCS)**
   Company: Robert Bosch Global Software Technologies
   Customer: Daimler
   Designation: System Test Engineer
   Tools Used: DOORs, RQM, JIRA, Jenkins, CANoe, Carmaker
   Testing Platform : **HIL Testing**

The system uses ultrasonic sensors and Cameras to measure the distances and parking space to nearby objects via Sensors located in the front and rear bumper.

Roles and Responsibilities: Individually Handled PMA Features in Team and worked on Carmaker.

- Requirement Analysis, Test design, Flashing the ECU, Validation the modules, track down the Issues.
- Understanding and Designing Test cases for specific Features (APC, MSP, PTS, RPA) as per requirements using Carmaker Tool.
- Triggering Tests using Jenkins Pipeline and execute on Carmaker.
- Flashing of the ECU's using TRACE32 Tool.
- Generating CANoe configuration in HIL Repository from RBS team.
- Reconfirm the Defect is proper with the help of ADTF tool.
- Raising the defects using JIRA and tracking them to closure.
- Reviewing newly Designed Test Cases, Reviewing and Approving Pull Request (PR) and Reviewing Requirements to move as Agreed state.

2. Project Name: **Automatic Parking Assist**
   Company: ZF India Technology Center
   Customer: GEELY (ZEEKR)
   Designation: Senior Engineer
   Tools Used: PTC Integrity, Jenkins, MATLAB, Carmaker
   Testing Platform : **MIL & SIL Testing**

Automatic Parking Assist Model will create the Trajectory path to park the vehicle based on the data of parking space and object.

Roles and Responsibilities: Individually Handled APA Features in Team and worked on Carmaker.

- Setup the project requirements like installation for Remote PC.
- Compile the MATLAB Model and Rectify the basic compilation issues.
- Build the MIL Environment to SIL Environment for SIL Testing.
- Work on Automation MATLAB Script for MIL Testing.
- Understanding and Designing Test cases for specific Features (APA, RSPA, RPA, APDC) as per requirements using Carmaker Tool.
- Select the required signals in Car Maker Output based on the discussion with Developers.
- Create Test Evaluation in Python Script.
- Triggering Tests using Jenkins Pipeline and execute on Carmaker.
- Reviewing newly Designed Test Cases, Reviewing and Approving Pull Request (PR) in PTC Integrity.
- Raising the defects using PTC Integrity and tracking them to closure.
- Participated in client discussion meetings on various issues.

3. Project Name: **Infotainment System**
   Company: SQUBE Multi Systems
   Customer: JLR
   Designation: Tester
   Tools Used: Clear Quest, CANalyzer, DOOR's
   Testing Platform : **System Test**

**Infotainment System** that provides a combination of entertainment and information foran enhanced In-vehicle experience.

Roles and Responsibilities: Individually Handled APA Features in Team and worked on Carmaker.

- Experienced in Functional and/Non-Functional Testing of Automotive Car Infotainment Systems for different modules like Bluetooth Connectivity, Audio and Projection Modes
- Logging the defects in the Clear Quest.
- Acquired good Knowledge on SDLC life cycle (V model).
- Understanding the complete infotainment system and performing various tests like smoketesting, functional testing, cross functional testing, regression testing and system testing for various infotainment features for successive intermediate releases.

## Personality Traits:

- ➢ Ability to work as an individual as well as in group.
- ➢ Strong motivational and leadership skills.
- ➢ Good explanation and writing skills.

## Personal Details:

**Date of birth**: 8th November
**Marital Status**: Single
**Languages Known**: English and Tamil.

I hereby declare that above furnished details are true and correct to the best of my knowledge

**Place: Bangalore**                                                                                          **Arunkumar R**