DHANUSH D.R.

Embedded Software Test Engineer

ISTQB Certified ® Engineer with 3 years of Experience ranging from Development of POC's as student trainee to Embedded Software Engineer specialized in ECU Validation in Automotive Domain, Testing methodology with detail-oriented Automation Testing, developing frameworks for test automations including proficient programming techniques & debugging strategies.

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EDUCATION

Master of Engineering
School of Information Sciences, MIT Manipal

08/2021 *8.36 CGPA*

Courses

- Embedded Systems

Bachelor of Engineering
Jain Institute of Technology, Davanagere

06/2019

Courses

- E&C Engineering

WORK EXPERIENCE

Engineer
L & T Technology Services

09/2021 - Present *Mysore, India*

Embedded Platform Software V&V

Achievements/Tasks

- **Project:** Automotive ECU Validation (BOSE Audio Amplifier)
- Amplifier SW testing using python test scripts in NI HIL setup verifying audio features like Bass, Treble, Volume etc. To perform the regression testing and validate the software for new releases and prepare the report with the project schedule in compliance with quality.
- Create new test scripts for the requirements to maximize test coverage for features and making framework compatible for new programs and also perform Manual Tests using bench setup if required.
- Review updated scripts and conduct meetings with onsite and offshore coordinators Mentoring team members and coordinating tasks within the team. Hands on experience in Bench Testing and Good at issue analysis and raising defects and also creating GUI to support Tools.
- Developing Frameworks - **" PyCAN Test Framework"** which is a test automation platform which is used to send &receive CAN messages to ECU using Python validate Amplifier's functionalities with increased efficiency.

INTERNSHIP EXPERIENCE

Tech Mahindra Pvt Limited - 10 months
(11/2020 - 08/2021)

IES - Automotive Embedded Software - Student Trainee Intern
Project: *Python Automation Development of iTAS Robotic Arm*
Description: *During development of Infotainment many integration builds need to be tested manually or with automation. The solution is to employ an automated regression test suite for a Robotic ARM which can be version controlled and which stays in sync with the requirements as they are designed, developed and made ready for testing.*

SKILLS

Programming languages: Python, C basics

Protocols: A2B, CAN, UDS, SOME/IP, RS232, RS485

HW Tools : NI CDAQ, NI HIL Setup, PCAN-USB interface, Vector CAN/LIN Interface, Mentor A2B analyzer, Mentor A2B Bus Monitor, Pico scope

SW Tools : Vector CANalyzer, PCAN GUI, NI MAX, Mentor A2B analyzer App, Mentor A2B Bus Monitor App, GIT, Jenkins, Testlink, TortoiseSVN, JAMA, JIRA

ACHIEVEMENTS

Spot Award
- for taking up the responsibility of handling SantaAna project and SantaRosa project independently & able to deliver all the validations on time.

Star Of The Month - Embedded Engineering
- for participating, submitting Ideas & building Prototypes for major tech events like Tech Expression, Engineering pradarshana in L&T and also for proactive works on all assigned tasks on time.

L&T Hackathon 24hrs Open Hack - 2nd Runner Up
- Participated in L&T hackathon 24hrs non stop coding Challenge, Showcasing the concept of Road segmentation- pothole and speed breaker detection using AI and have won the 2nd runner up prize.

Applied Patent for "Method and System for Optimizing ADAS testing" (Application Number: 202341085611)
- The idea here is to develop an automated testing tool which analyses the ADAS tones using AI developed model and plots the audio tone waves with detailed analysis of frequencies, voltage and time measurements

CERTIFICATES

ISTQB® Foundation Level - CTFL (Dec 2022)
ISTQB® - International Software Testing Qualifications Board

Programming for Everybody - Getting Started with Python From - University of Michigan.
(Coursera.org 2020)

Open Source Software Development, Linux and Git Specialization From - The Linux Foundation
(Coursera.org 2021)

HOBBIES

Travelling, Photography, Trekking