PRABHU BALLARI

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Ingolstadt, Germany
05 February 1996

EDUCATION

Master of Engineering
Technische Hochschule Ingolstadt
International Automotive Engineering

October 2019 – Present **Germany**
Courses
- Automotive communication system
- Control system
- Power supply and energy distribution
- Mathematical modelling and simulation

Bachelor of Engineering
Nitte Meenakshi institute of Technology
Electrical and Electronics Engineering

2013 – 2017 **India**
Courses
- Microcontroller
- Digital signal processing
- Control system
- Network analysis
- Signal and system
- Logic design

PROJECTS

- **Construction of backpropagation Multiple layer perceptron's for data recognition:**

Pattern recognition for the available datasets.
The software used for the simulation for the backpropagation perceptron was MATLAB.

- **Virtual Simulation of future mobility solutions on unity.**

Development of a virtual simulator system that can be used for testing and predicting system behavior at a greater level of safety.
The tools and software used are unity real-time development platform, C#, visual studio Community, Git Tortoise

WORK EXPERIENCE

Software Engineer (October 2017 to October 2019)
KPIT Engineering Limited, Bangalore (India)
Customer: **RNTBCI (Renault and Nissan)**

Project Title 1: **Coding for the Simulink model, Verification and Validation – MIL/SIL for fixed point and floating point.**
Skills:
Software, Tools & Platform: MATLAB, Simulink, State flow, Reactis for C, Auto code Generation.
Operating System: Windows.
Languages: C, Basics of M-scripting.
Version Control: Tortoise SVN.
Tools and Technology:
MATLAB/Simulink, State flow, Reactis for C, Embedded coder, Tasking compiler, PCLint
Language: C

Roles and Responsibility in project:

- Verification & Validation
- Generating the code for the specification and Simulink model using auto code generation. Preparing the test cases as per the scenarios given by customer
- Converting the Simulink model parameters from MATLAB environment to Reactis for C environment.
- Creating a detailed validation report.
- Tracking the modules, issues and support TL in tracking.
- Training and mentoring juniors for running tools and coding development to achieve the quality and productivity.
- Review and Screen the developed codes and model validation.
- Good in debugging and troubleshooting the errors

Project Title 2: **Fixed point Coding and Unit Testing for Simulink Model.**

Tools and Technology:

MATLAB/Simulink, State flow, Reactis for C, Embedded coder, Tasking compiler, PCLint, windows

Languages: C, M-scripting

Description: This project is for developing code based on the specification of Simulink Model. The code is developed, and unit testing is performed for functional specification in this project.

Roles and Responsibility in project: Developer, Verification& Validation

- Analyzing the inputs and prepare impact analysis.
- Estimation of modules (No. of Test cases and SLOC).
- Developing the Code and XML.
- Preparation of Unit test plan and Unit test report.
- Compilation of code using Microsoft Visual C++, EMS Comp and EMS Lint.
- Tracking the modules, issues and support TL in tracking.
- Training and mentoring juniors for running tools and coding development to achieve the quality and productivity.
- Good in debugging and troubleshooting the errors.

PUBLICATIONS

- 'Enhanced radiation trapping technique using low cost aluminum flat plate reflector'. IEEE (10.1109/I2CT.2017.8226163)
- Presented a Technical paper in Nation Conference held at JNU, New Delhi dated on 28 November 2015 Published in Krishi Sanskriti Publication [ISBN:978-93-85822-08-7]

HONORS AND AWARDS

- Participated in "KPIT sparkle 2016" and recognised as a promising innovator for the design of material for automobile vehicle.
- Finalist in" KPIT sparkle 2017" and recognised as a promising innovator for design of smart infrastructure.

SKILLS

MATLAB/SIMULINK

MS Office

C Language

LANGUAGES

English

Kannada

German

INTERESTS

- Movies
- Cricket
- Travelling

EXTRACURRICULAR

- Member of Nitte Technical Committee-2016 for Electrical and Electronic department (2016-2017)
- Technical head of Tesla Forum of Electrical and Electronic department (2016-2017)
- Member of Happy World Foundation (NGO) from August,2015