## Piyush Jain

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## #151/15thcross1stmain, Jakkasandra, Koramangala, Bangalore-34

## EDUCATION

## Secondary (Class10th),ICSE 2007—2008

## St. Francis School, Ranchi

## Aggregate-92%

## Senior Secondary (Class12th),CBSE 2009—2010

## D.A.V. Public School, Ranchi

## Aggregate-89.9%

## B.E. (Electronics and Communication),VTU Aug2010—May2014

## PES Institute of Technology, Bangalore

## CGPA-8.4

## WORKEXPERIENCE

## Robert Bosch Engineering and Business Solutions Limited

## Senior Software Engineer

## Automation

## July2014—Present

## I have been asingle point of contact for all the automation activities in my department. I mainly use Python and VBA for my automation tasks. Some of them are-

# Python Scripts to interact with our testing tool API' stosetupthetestingenvironment,flashthesoftwareandtriggerthetestbasedonanexcelinput.Thisscriptmadetheprocessofbuildandroutinetestexecutionslikebasefunctiontestrunseamlesslywithoutanymanualintervention.

# Python Scripts to interact with excel, XML, text file to automate some of the basic routine task like creating/modifying an XML file from excel/ texting puts, searching data in a large text file using regular expressions, comparing multiplex cell sheets.

# Python Scripts to fetch data from there requirements database and automatically trigger continuous in tegration build.

# Python script to fetch my stock portfolio list atus by scraping money control website.

# Scripts in Visual Basics for application for excel to compare work books and present data in better format, automatically send mails via outlook, for mah ttp get request to fetch data from there requirements database. I have also created interactive ash board sine excel with multiple forms.

# Automating the routine tests like Base Function tests by creating the test cases in ECU- Test test environment.

# System Designer

# Apart from the automation ,I am also responsible for handling the new requirements of the Complex Driver module for Uni air system of Engine Management system. The inletvalve is controlled by another system in addition to the conventional CAM where in the pressure from the CAM lobeisse lectively passed on to the in letvalve piston thus giving the flexibility yo fvariable valve lifts and timings depending on the engine load.

# Responsibilities-

# Analyzing and documenting the new requirement from the customer.

# Handling there requirement in Request one requirement management system and also in customer portal. Discussing the design proposal of there requirement and any other open points with the customers.

# Preparing the Black box test case for there requirement and performing it before software delivery.

# ADDITIONAL EXPERIENCE

# I haved developed at technovation project along with two other colleag use to interface GPS and GSM module with the sample ECU development board and send the data (like tyr re pressure ,door status, fuel status ,etc) to the and anroid application. This include dregistration of the user's mobile number, collect all information from there respective CAN frames and GPS and send it to mobile phone where an application was developed to display the data. I alone developed the android application.

# I have mentored new joiners in our team.

# I was a part of the Event Management team to organize team outing and monthly Fun events in Bosch.

# I have organized Gaming Events in College Annual Techno-Cultural Festival (2012and2013) in PESIT.

# TECHNICALSKILLS

# Proficient in Cand Python and comfortable with C++.

# Have knowledge about OOPS concepts, UML and design patterns. Have knowledge about data structures and algorithms.

# Have an understanding of automotive gas oline systems and the vehicle systems. Have knowledge about micro-controllers and it's resources.

# Have experience in Input-Out put testing of all these nsors and actuators in the Engine management System.

# Have experience in CAN and Vector tools CAN alyzer and Canoeand cando CAPL scripting. Working experience with Git and SDOM Version control systems.

# ACADEMICPROJECTS

# Automatic bidi rectional visitor counter

# As systemthatcounts then number of people present in the hall. Duration-July2012 Teamsize-2

# Overhead Water Tank Controller

# A system which simplifies switching of pumping ot or by automatic control. Duration- July2013 to August2013 Teamsize-2

# Target Detection using Neural Networks

# Amodelwhichdetectstheintrusionattheborderregionandclassifiesthetargetbasedonthetrainingreceivedbytheneuralnetwork.

# Duration-Jan2014toMay2014 Teamsize-3

# TRAINING

# Freshers Training in Bosch(2months)

# Learned the transition from College to Corporate Culture, basics of C, C++, Embedded Systems and Automotive Principles

# Visual Basics for Applications (3days)

# Learned to write Macro Script to Automate basic working of Excel.

# AWARDSANDACHIEVEMENTS

# Got One Time Award for topper for mance in the year 2015 in Bosch.

# Got appreciation from senior managers for organizing group outing in Bosch. Got' Distinction Award' in alleight semesters in College.

# Stood 3rd in School in class 10th board.

# INTERESTS

# Reading online articles.

# Playing cricket and table tennis.

# Listening to music and traveling to places.