ILESH P. PATEL

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Ahmedabad, Gujarat, India-380061

OBJECTIVE

As a Software Testing Professional my ambition is to work in an innovative, creative and challenging environment where my technical skills and talent could be optimally utilized also, leading to the growth of the organization

SUMMARY

- In 3.5 years of experience major experience in Python based test automation framework development for Networking switch ASIC, Network Protocol Testing with automation, Manual & Functional L2/L3 protocols
- Possess strong skill sets in router, switches and depth knowledge of various switching and routing protocols (Like, Vlan, Lag, Routing, Tunneling, ACL, Mirror, Openflow protocol)
- Creating and Executing the Test Cases and Involving into internal Test Design , Test Plans, and Framework development and design

TECHNICAL SKILLS:

Functional Areas	Test Automation framework design and development, Manual, Functional, Regression Testing
Tools	Spirent, Ixia-Ix Explorer, Ostinato, scapy
Network Protocols	Vlan, Lag, Routing, Tunneling, ACL, Mirror, Openflow protocol
Scripting Language	Python, Robot, Shell
Programming Lang.	Basic C, C++

WORK EXPERIENCE

Volansys Technology Pvt Ltd. - Sept 2014 to Cont...

Engineer

1. **Project Description: Network Switch ASIC SDK Testing**

     Testing of High Speed SDN enabled reconfigurable network ASIC. In testing needs to identify, automate and run function(L2/L3 network features), Stretch, and performance test.

    Role and Responsibilities:

    - Involved in testing for L2/L3 testing network protocol, Openflow with ovs, SAI OCP testing
    - Involved in Automation Test Framework design and development to test Networking Switch SDK using Python, shell script & C
    - Contributed to prepare test plan, test case and test strategies
    - Participated in Test Plan review meeting with internal and external team

- Setup and Integrate automated test framework with Jenkins to run whole testing daily in regressive mode with single click as well as time based trigger.

Test Framework:

- py.test, robot, gtest, PTF, OFtest, RyuTest

Tools:

- Spirent, IXIA, ostinato, scapy

2. Project description: Packet dissector for Network telemetry

Need to develop python based application to parse received packet hex dump on cloud and send packet to cloud broker. We have used MQTT for packet send/receive and scapy for packet parsing.

Role and Responsibilities:

- Analysis and understanding of requirement
- Design and develop python based application for packet dissector
- Write test case to test application

TechMinions Innovation LLP. - Dec 2016 to Mar 2017

Co-Founder

- Working on Safety Product development for CAR user.
- Device have feature like front-end collision, lane keeping assistance, dashcam video recording, GPS tracking, OBD analysis and alert data analytics report generation for driver's driving pattern, driving behaviours, driving speed based.
- Role and responsibility for module like GPS, GSM, Raspberry PI setup, power optimization, OBD, OTA hardware part selection, application development for web communication using MQTT, Linux application development and system integration and documentation & Planning

Green Systems – Aug 2011 to Sep 2012(full time) & Oct 2012 to Dec 2013(part time with M.E)
Project Engineer – Embedded
- Working on different systems like ARM, PIC, SoC, Raspberry Pi, 8051
- **Prepare Set Up to benchmark throughput and latency of 10G NIC with Hard real time Xenomai RTOS.**
- **Setup includes Kernel compilation, configuration, patching and application development and testing**
- Worked with shell scripting and C socket programming
- Prepare **testing report and analysis for benchmarking**
- Development of IR camera **video streaming** project based on embedded Linux system
- Communicated with vendors to recommend, manufacture and supply parts and materials for product also Coordinated with engineers, sales representatives from other companies
- Home automation and sensor network development systems interfacing with **Raspberry PI**
- Developed PIC based safety system for Plasma based energy generation unit

EDUCATION

PGSchool–Gujarat Technological University collaborated with CDAC-ACTS,PUNE–June 2014
*ME in VLSI & Embedded System Design with CGPA **8.84/10** (Full time)*
Hasmukh Goswami College of Engineering -- Gujarat University - 2011

*Bachelor of Engineering in Electronics & Communication with **60.86%** (Full time)*
Higher Secondary Certificate, Ahmedabad- 2007
*HSC with **66.4%** from Gujarat Higher Secondary Education Board (Regular)*
Secondary School Certificate, Ahmedabad- 2005
*SSC with **71.57%** from Gujarat Higher Secondary Education Board (Regular)*

Academic PROJECTS

1. ***Development of Video Conferencing Application***
   Raspberry PI + Raspbian OS
   The project is aimed to prototype video conferencing software as well as hardware platform. Raspbian Wheezy Linux is used as the operating system on RPI for software development. The end application will be able to capture real time video & audio data, process it for compression/decompression, stream it through network & display it on the screen.

2. ***Microcontroller based safety system for Plasma based Energy generation unit.***
   Embedded System Design
   The micro controller compares the measured temperature to the set reference temperature and controls the cooling mechanism. The temperature controller system consists of temperature sensor LM35, Contactor, Relay, LCD display, LM336, Alarm and PIC 18F4620.

RESEARCH & OTHER ACTIVITIES

- Presented paper entitled *Xenomai based low cost real time architecture for DAQs using USB* at National conference on RACE(Recent Advances in Computer Engineering) 2014 at International Journal of Researchers Scientist and Developers (IJRSD) summit ,Pune.

- Represented patented plasma based clean energy generation technology at Inclusive Innovations Exhibitions, Pune in 2013.

AREA OF INTEREST
- Networking and SDN
- QA Automation
- IoT and Computer vision

PERSONAL DOSSIER

Name	: - Ilesh Pravinbhai Patel
DOB	: - 1st March, 1990
Languages Known	: - English, Hindi and Gujarati
Hobbies	: - Social Networking, Playing computer games
Passport	: - Available

DECLARATION

The particulars furnished by me are true to the best of my knowledge and belief.

Place: Ahmedabad   Thanking You
Date: 16-05-2018   Ilesh Patel