

Raanasukumar Muthyam  
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## Summary

- Experience in Manual testing of ONU, CPE devices. Good understanding at GPON, VLAN, IGMP, ARP Protocols
- Experience in Automation with Python, TCL, Robot Framework and Better exposure on DevOps.
- Experience in Infrastructure Management with Hypervisors and Good Knowledge on analysing Security Vulnerabilities.

## Skills

<b>Scripting languages</b>	-	Python, Robot Framework, Groovy, TCL.
<b>Operating systems</b>	-	Linux (Debian, RedHat, Kali), Windows.
<b>Cloud</b>	-	Amazon Web Services, Google Cloud Platform
<b>DevOps &amp; Source Control Tools</b>	-	Git, Jenkins, JFrog & Nexus Artifactory, Bitbucket, Bamboo,
<b>Hypervisors</b>	-	Proxmox, VMWare ESXI, VirtualBox
<b>Protocols</b>	-	VLAN, ARP, DHCP, GPON, ICMP, IGMP, OAM, Lawful Intercept. Netconf, Restconf, Qos, IPFIX.
<b>Security Tools</b>	-	Nessus, Nmap
<b>Products worked on</b>	-	Huawei OLT, Nokia OLT, Total Access 5000 OLT(ADTRAN), Spirent, Extreme Switches, Adtran Netvanta Switches, Digi Servers, Dell ESXI, Super Micro, Residential ONTs and DPUs.
<b>Test and Collaboration Tools</b>	-	Spirent Testcenter, Wireshark, Jira, Jira API, HP Quality Center, Ixia, Confluence/WikiSpace, Spirent Velocity.

## Experience

### Software Engineer at ADTRAN Networks

2<sup>nd</sup> January 2019 – Nov 2021

#### *G. Fast System Test and Infrastructure Management*

- Good Knowledge and Responsible to bring up functional and non-functional testbeds.
- Experienced in Manual testing of **DPU, ONT** and **CPE** as DUT. Feature testing and analyzing field issues reported by Customers. Good Understanding of **GPON, DHCP**
- Automation of Manual Scenarios with **Robot Framework** and **Python**. Strong understanding on Robot Framework execution architecture.
- Experience in creating **Declarative Jenkins Pipelines** with **Python Virtual environments, Groovy, and Shell Scripting**. Responsible for creating pipelines according to Team Requirements.
- Good scripting knowledge in Python, Supported Jenkins utilities and Robot Framework Testcases by writing **Python API's**
- Good understanding on **Virtualization**, Responsible to maintain Jenkins Infrastructure and Team Lab Requirements with Virtual Machines. Good Experience in handling **Proxmox, VMWare ESXI**.
- Experienced in analyzing Security issues by performing **Nessus** and **Nmap** scans. Proper understanding of port, OS, web vulnerabilities. Responsible to perform Security tests on Web applications, and ONU, CPE devices

## **Network Engineer and Test Professional at OPENREACH (British Telecom Plc)**

**Nov 21 – Mar 23**

### *Network Integration/Conformance Test*

- Understanding the logical real time design in the field and implementing the tests. Working with multi-vendor devices for interoperable tests.
- Working on Real time issues found in the live network from field and investigating the issues.
- Working with Development and R&D teams from different product vendors for the end-end solution.
- Automating testcases in TCL, Python and Robot framework, Working with Variety of DevOps tools like GitLab, Nexus Repository Package Manager, SonarQube IQ, and Cloud Bees Jenkins.

## **Engineer, Solutions Automation at CALIX**

**Mar 23 – Now**

### *Solutions Automation and Tool Development*

- Automation of tools and utilities using python.
- Working with Calix Layer 2 and Layer 3 products including GPON based OLT, ONT.
- Writing test plans for the solution test, Automation of tests in Robot framework and Python, Notable Automation features include – Qos, OAM, IPFIX, Lawful Intercept, TFTP, Customer based test scenarios, Field Issues.
- Working on Automation Integration with Bamboo, Bitbucket, Jenkins, Sonatype nexus artifactory.
- Worked on Automating Cloud based application for Calix, Calix Cloud Operations Platform using Restconf and Selenium.

## **Educational Background**

- Bachelor of Technology in Information Technology from VNR Vignana Jyothi Institute of Engineering and Technology, Hyderabad in the year 2019 with 74%.
- Diploma in Metallurgical Engineering in Government Polytechnic College, Kothagudem in the year 2015 with 77%.
- SSC from BSE, Telangana in year 2012 with 87%.

## **Personal Achievements and Certifications**

- Awarded for Developing an Educational blog in college. Currently the blog is used by Government Polytechnic, JNTU Hyderabad and Metallurgical students from Andhra Pradesh. (ACTIVE)
- Cisco Certified Entry Network Technician (CCENT).
- Certified Ethical Hacker by Linux Academy (Basic).
- Linux Professional Institute Certificate II by Linux Academy.
- Received Accolades from ADTRAN for developing internal bookmarking website and optimizing system infrastructure by designing new CI/CD Architecture.