Sanika Patil

Senior Software Engineer, Capgemini Engineering

Dedicated professional as an Embedded Software Engineer with 3+ years of hands on experience in Embedded Systems, OTN, Configuration, Software development, Debugging, Automation Testing. Completed campus professional training in C programming language. Having experience in Analysis, Development, Testing, and Integration. Working on Optical Transport Network (OTN) platform with Cisco. Having good knowledge in Cisco routers. I possess strong technical skills and interpersonal skills.

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WORK EXPERIENCE

Associated with Cisco Systems
Project 1 : NCS4k Router - 4*100G line cards

11/2021 - 11/2024   *Pune*

*NCS4K Router holds dual router processor and 16-line cards. Supports 4 different line cards, whereas 4*100G line card is one. It supports up to 400G traffic at the line with two 2*100G trunk ports and 8*100/40G client ports. The multi chassis setup can be made through fabric chassis which can be plugged in the LC slots, duel RP setup provides high availability.*

Roles and Responsibilities

- Closely worked on Sauron 1 Line Card of NCS4k router. Understanding of ODU, OTU, ENET Packet traffic on OTN platform.
- Worked on implementing 10G, 40G, 100G supported loopback feature in 4*100G LC. Wrote UT cases and HA test cases for loopback feature in Sauron 1 LC. Involved in end to end testing
- Resolved the triages BUGs and customer issues on OTN platform and comited code on IOS XR.
- Closely worked on OTN framer and chassis for configuration, Traffic testing, HA test cases, logs debugging, re-imaging chassis.
- Worked on development of QSFP feature supported as per range requirement in 4*100G router. Involved in end to end testing.
- Prepared the High Level Design (HLD) and UIT documents for loopback feature.
- Provided training and presentation on loopback feature to team.

Associated with Cisco Systems
Project 2 : NCS1K Router- BO Line Card

12/2024 - Present   *Pune*

Roles and Responsibilities

- Enhanced optics capability display CLIs and optics configurations CLIs
- Actively worked on techzones on BO line card and 1.2T line card.
- Closely worked on Ciena CFP2 pluggable feature in NCS1k. Responsible for implementation and Testing of Ciena cfp2 feature.
- Responsible for the UT plan creation for Ciena CFP2 feature. Also addition of UT test cases in sanity suit(automation).
- Responsible for creation of sanity suit (automation) of Ciena CFP2 feature. Worked on testing of sanity suit with sequence file and parameter file.
- Actively participated in all discussions of Ciena CFP2 feature and given the suggestions for debugging and UT plan.
- Worked on the creation of sanity setups datapath connections and topology document and shared with all team members.

IDE AND TOOLS

VS code   WIN SCP   Git   VNC   GDB

PUTTY   Spirent(Tester)   JDSU(Tester)

Unwind

EDUCATION

Bachelor of Engineering in E&TC
(06/2017 - 10/2020)
- Electronics and Telecommunications

TECHNICAL SKILLS

C language | Linux | Embedded system | Optical Transport Network (OTN) | DWDM | Ethernet | NCS1K Router | NCS4k router | Sonet | Microprocessor| Microcontrollers | Optics | Networking | Debugging | Unit Testing | Sanity(automation) | Automation testing | Internet Protocol (IP) | TCP/IP | Network Convergence Systems | CISCO Routers |

LANGUAGES

English
Limited Working Proficiency

Hindi
Professional Working Proficiency

Marathi
Native or Bilingual Proficiency