

Monisha V

An academically sound telecommunication engineer with good communication and leadership skills aspiring for a challenging career in the telecom domain including Research & Development, application development, maintenance and support projects.

EXPERIENCE

Quadgen Mastec company, Bangalore India— *Network Engineer*

July 2019 - Sept 2020

Ericsson OSS Support:

- Radio access network engineer with a 1 year background in ericsson troubleshoot and network management.
- Troubleshooting/configuring and maintenance of UMTS/ LTE/5G AT&T telecommunication networks and Ericsson equipment.
- Was responsible for 4x4 and dual band radio configuration updates after radio swaps on site and antenna Remote electrical tilt (RET) scripting when new antennas were swapped/replaced.
- Basic understanding on Tower mounted amplifiers (TMAs) bridging the radios to the antennas.
- Solved 90% of Tier 1 tech support tickets without needing to escalate to tier 2 tech support engineers.
- Assisted clients with general support for hardware, peripherals, network connections.
- Escalated tickets to Level 2 / Tier 2 support when outside the scope of L1/T1 technician support.
- Maintenance of correct SFP usage, RSSI, VSWR and fiber loss thresholds to ensure proper working of the telecom network
- Worked with various Ericsson radio/antenna models:
 - Base band unit : model BBU 5216 (6 port) /6630 (15 port) and XMU(16 port)
 - SFPs : High temp (65/3 and 65/25 sfp models), Low temp (47/3 and 47/25 sfp models)
 - Low band/High band and dual band radios : Models ; RRU 11 (700/850 bands), RRU 12 (PCS/AWS bands), RRU 32 (WCS band), RRU 4415 (PCS/F-net/B-29), RRU 4426 (AWS band), RRU 4449 (700/850 dual band), RRU 8843 (PCS/AWS dual band)

SKILLS

LTE,5G,RAN,3GPP,att tools, Software troubleshooting and problem solving.

CERTIFICATIONS

Radio Access Network

Integration - 4G/5G architecture, protocol stack, call flow,channels,carrier aggregation.

Coursera-Wireless Communication for everybody

- Evolution of 1G-5G,Principles of wireless communication,wireless resource management,MIMO techniques,LTE cellular networks and services.

National Workshop on satellites and remote sensing

-Organised by ISRO and ISRS.

BSNL,Mysore industrial visit

- Fiber communication, communication networking and mobile communication.

LANGUAGES

C,Python.

- Antennas/RETs

Commscope antenna -

RV4PX310R-V2,NNHH-65A-R4/NNHH-65B-R4/NNHH-65C-R4,NNH4-65B-R6H4

ACE antenna -

XXQLH-654L8H6-iVTXXQLH-654L8H8-iVT,XXQLH-654L4H6-iVT/XXQLH-654L4H8-iVT

CCI antenna - TPA65R-BU4DA/TPA65R-BU6DA,DPA-65R-BUUUU-H8B

Kathrein - 80010865,80010966/80010965/80010964

across 7 markets

(North/SouthCarolina, Virginia, Georgia, Louisiana, Mississippi, Alabama).

- Effective collaboration and communication with AT&T field engineers.

- Received accolades from Quadgen senior US/India leads for best performance, quick learning and leadership skills.

SOFT SKILLS

Interpersonal communication, organization, leadership, teamwork skills.

EDUCATION

CMR Institute of Technology, Bangalore— *Bachelor's in Telecommunications*

Aug 2015 - June 2019

Bachelor's in telecommunication with a CGPA 7.37

Deeksha Integrated Indiranagar, Bangalore— *Pre University*

June 2013 - June 2015

PCMB 84.5%

Baldwin Girls' High School, Bangalore— *10th ICSE*

Aug 2001 - Aug 2013

ICSE Board 85.8%

AREAS OF INTEREST

- Wireless communication
- Optical fiber communication
- Signal processing
- Microcontrollers/Embedded systems

PROJECTS/INTERNSHIPS

IOT based system using microcontroller — *Intern, SASMOS.*

- Sent out an email using an ESP8266 Wi-Fi inbuilt microcontroller.
- Programmed the microcontroller using LUA scripts.

Detection of faults using machine learning — *Intern,NAL.*

- Generated faulty/noisy signals using signal processing.[MATLAB]
- Sampled/classified the signals to make the training data set.
- Detected the faults in a wireless sensor network using python.

Charging a battery using piezoelectric shoe — *4th SEM*

- Hardware connections(Piezoelectric discs/capacitors/bridge rectifiers).
- Usage of amplifiers to increase the output voltage.

Tic Tac Toe gaming using python — *6th SEM*

Driver safety monitoring system — *Final year project*

- RFID scanning for dual authentication.
- Alcohol detection system using arduino.
- Pulse monitoring system using PPG sensors.
- Fatigue monitoring system using raspberry pi 3.0