

## Pratick Mazumdar

### Summary:

- An innovative and resourceful Telecom Professional with years of **global (Europe/Africa/Asia & America)** experience in the Wireless Telecom Industry as an RF / RAN Engineer, Engineering Consultant, SME, and RAN / RF Manager.
- Wide variety of engineering and Telecom Infra. Projects hands-on experiences including deployment, architecture, design including link budgeting, pre, and post-Performance and sales analysis & R.F. Optimization, Implementation of RAN domains of 5G-Sub-6 & mmW band, IoT, 4G-LTE, 3G-UMTS, 2G- (GSM, CDMA), VSAT and fixed wireless networks.
- During my tenure, I have provided my service to Samsung Electronics, America, Dish Wireless, Sprint, AT&T, Ericsson, T-Mobile, AT&T/FirstNet, British Telecommunication, O2, Telefonica, Alcatel/Nokia, Reliance, Airtel, Government wireless regulator, and many more in different capacities.
- My significant knowledge and experience are in wireless Mobile and fixed Access networks. I also have a thorough understanding and some experience with Backhaul networks (M.W./Optical/UE-Relay/SAT) and Mobility core networks.

### Tools & Software:

- Use of Samsung USM / Yang browser related to Performance and service management.
- HPE OSS. Ericsson ENM / OSS), NOKIA NetAct, mCMS, secure CRT, SolarWinds, AWS GUI, and, applications related to eTOM industry-standard analytics tools like Tableau. Power BI.
- Experience using R.F. Test equipment such as Network Analyzer, Logic Analyzer, Spectrum Analyzer, Signal Generator, Power Meter, Oscilloscope and customized test Jiggs, Anritsu Site Master, PMI meters, and R&S Universal Radio Communication Tester for UHF / MW Radio bands.
- Appian, Pro-Optima / TPIM – Performance & KPI management/monitoring tool.
- Asset / ATOLL/ Atoll / Mentum Planet / ACP / Odyssey / Google Network Planner / Planet (Marconi) / Nemo / RMAP, Arc GIS, MapInfo, Google Earth – RF planning & Design tools and Sprint vision for RFDS, and Database tool and general RFDS design tools.
- ASCOM-TEMS network drive test tool, Pilot - Scanner, ActixOne, Windcatcher, TEMS Investigation. TEMS Discovery, Anova, Nemo, XCAP, XCAL-Solo, Spectrum Analyzer, Homer/element manager, and Network-based Throughput testing.
- AT&T Tools like RMAP, LTE Tools (Ericsson BBT Platform), Net Audit Suit.

## **Professional Experience:**

### **Dish Wireless**

#### **5G RAN Tier-III SME / Manager**

##### **Mar 2022 – Present**

As a Network Manager, I represent Tech Manindra to Dish Wireless to support Tier-II/III issues as 5G RAN SME related to new market launches & integration for rolling out their nationwide ORAN-based SA 5G wireless network.

- Customer-facing led roll.
- Resolve or contribute SLA-based actionable items through a 24x7 War room bridge.
- Highly involved in PM activities and supporting Backhaul and Core Network PM groups.
- Perform daily fault and performance analysis using a variety of monitoring tools to discover network impairments based on analytics and KPI's/QPI.

- Co-ordinate issues related to Cloud with VMware and AWS support if required, besides with Backhaul team/Core Team or RAN team.
- Review network logs to discern state changes in network equipment to maintain Network Architect.
- Execute our project goals and support other project groups to achieve their milestone.
- Perform remote resolution of faults through various Element Management Systems, and Assurance platforms.
- I am mentoring new resources while closely working with RAN & R.F. Team.
- Support Integration & RF team for problems and log-based reporting to higher management.
- Deploying, validating, and acceptance testing of network connectivity products and solutions in coordination with stakeholders and Vendors.
- Supporting lab projects. lab trials, field trial deployments, and supporting their entrance and exit process.
- Work closely with NOC to maintain launched markets like Las Vegas and Oklahoma for now and support the integration team if required for all 2022 markets.
- Work closely with the technology team of Maviner, Nokia, Samsung, AWS and VMware, and Spirent.
- Strive to have perfect end-to-end network topology and Architecture for proficient workflow.

**Samsung Electronics, America – Plano, TX**  
**5G RAN SME / PM Role.**  
**Jun 2021 – Mar. 2022**

As a 5G RAN SME and PM role, I represent Samsung Electronics for Verizon's 5G C-Band greenfield deployment/Rollout, X-Anchoring, and DSS in the North-East and Central Region of Verizon's NSA Network, which includes DSS and X- Anchoring with Verizon's existing Nokia

4G network with Samsung 5G. This is a customer-facing led role.

- Customer-facing led roll.
- Execute SEA's 5G vRAN FoA on Verizon's NSA / Future S.A. network based on RAN test cases to support Lab activities as needed by Samsung North America before Lab exit.
- Coordinate different internal and PM teams daily to consolidate FOA and deployment activities and ongoing C-Band rollout activities of Verizon.
- C-Band, CBRS, and other licensed band spectrum verification.
- Executing FoA for future network optimization with C-Band deployed with 4T4R/8T8R/64T64R and documenting best practices for Verizon management.
- I am mentoring new resources while closely working with RAN & R.F. Team.
- Post-process Network logs and XCAP logs retrieved from the RF team for problems and log-based reporting to higher management.
- Coordinate SSV and cluster ATP verification of Macro and small cells of 4G and 5G. And responsible for customer acceptance
- Resolve or contribute SLA-based actionable items through a 24x7 War room bridge.
- Coordinate with the field team, including the Drive test and processing team for Pre and post-maintenance window planned deployment,
- Broadly involved in verification or testing for vRAN SW/ HW FoA, or G.A. task.

**Dish Wireless – Las Vegas, NV**  
**Apr 2021 – Jun 2021**

I Supported the Las Vegas market infrastructure rollout as a RAN Consultant to launch Dish wireless's first O-RAN-based SA-5G services in the Nation. This role demands high technical experience in almost all aspects of network components.

- One of the team members made the first-ever 5G SA Vo-NR & Vi-NR test call in the USA on the Dish wireless network.

- Joining war room or conference to iron out issues like deployment, site integration, fault diagnosis, and, optimization.
- Support and perform FCC/FAA/C/PCS/AWS/CBRS band spectrum verification.
- Coordinate between the National team, Maviner (ORAN Vendor), and the device team on local deployment and service-related issues. On the Round-the-clock G-Meet bridge.
- Coordinate with Field engineering, Design and planning, Transport, core, and site integration team daily to sort out punch list.

## **AT&T-Ericsson, Los Angeles, CA**

### **Principal Consultant**

**Apr 2018 – April 2021**

As a Principal RAN OPTIMIZATION ENGINEER responsible for a team that independently performs professional engineering assignments on part of the Los Angeles / Greater LA

market area as an R.F. Design (Minor) and Optimization (Major) Engineering level functional, which involves E2E performance estimation of AT&T's Ericsson LTE & 5G Sub-6/mmW band in the rollout stage. Also, all other day-to-day activities for the pre-determined geographic area (Zone). This also includes ATT-FirstNet RAN.

- Constantly device improvement or maintain RAN (Macro, small cell, CRAN, and DAS) Performance CQI Matrix / Counter based performance KPI's that include Network Availability, and Voice and Data Retain ability, Accessibility, 3G/4G/5G Network leakage, throughput, and mobility, but not limited to those mentioned.
- 5G-Sub-6/LTE post-implementation E2E performance optimization of NSA/ENDC network.
- Customer VoLTE call flow issues, including IMS call setup/release and evaluating SIP messaging if required.
- Work closely with the visualization and analytics team to improve KPI visualization on management/engineering dashboards.
- Review network performance for pre and post-optimization based on the counters and as well based on Drive test results from Samsung 5G U.E.'s, PCTEL IBFlex, R&S, and post-processed on Anova tool.

## **T-Mobile, Concord, CA**

### **Principal Engineer**

**Feb 2007 - Apr 2018**

As Principal Engineer Radio planning and strategist responsible for engineering assignments at regional and National level functional.

- Small Cell / CRAN architect/design & Planning on 800 MHZ, 1900 MHZ, and 2.5 GHz that includes link budget, running predictions, and dimensioning. Also coordinating with internal National team, deployment, Commission & integration, site acceptance team, sales, and marketing team and, an external vendor like Crown Castel, Bongio, Mobilitie, Extenet for project-related issues.
- Leading designated regional / markets for performance improvement initiatives for LTE / VoLTE / 3G /2G and E2E R.F performance and optimization activities.
- Coordinate with Region's markets of both Ericsson & Nokia vendors, sales team, device team Field Service Centre, Vendors, and other departments like transport, CS / PS Core, operations, NOC & projects to maintain or achieve targets set by T-Mobile management for customer-impacting KPI's like Retain ability, accessibility, leakage & throughput of VoLTE/LTE, UMTS & GSM network.
- Being at the regional level, we are also responsible for the follow-up with the west region markets for spectrum allocation changes and interference hunting team and equipment facilities.
- Pursuing technology deployment and development activities Work with market cross-functional departments like Vendors, Field operations. RAN, Core. Transport, Markets, National team, and peers in other markets to identify and share best practices and coordinate activities.

**O2 (Now Telefonica) Manager - Projects**  
**Jun 2004 - Jan 2007**

Served as R.F Manager Projects (M-25 Outer-West - London Region) - Radio Planning and Optimization Engineering in O2 – U.K.

- Lead role and Job covers strategic decisions for implementing new assets of 2G/3G, approval meetings for Radio Network planning optimization, and Radio Network Data building.
- Review zone performance and attend the meeting with higher management for approvals and grants.

**GLO – Nigeria, Reliance Communications (Now JIO)-India, BTCellnet (Now O2)-UK, Airtel-India & Motorola-India & Bangladesh.**  
**From - Dec 1994 – To - Jan 2004.**

I Served the above-listed wireless services and Vendors in different capacities as a consultant, Engineer, and Manager.

I am truncating CV to keep my experiences of last 15 years.