RESUME

S. Bhanu prasad	**Email Id:** bhanuprasadswarna@gmail.com
B.TECH(ECE)	**Phone No:** +91-8861186402.

Telecom Experience: 13-yrs

Objective:

To pursue a dynamic and rewarding career in the telecom industry where I can utilize my skills, knowledge, and innovation to drive growth and success for the company. I am committed to adding business value through technology while maintaining adaptability, creativity, and a solution-oriented approach.

Key Telecom Strengths:

☐**Protocols**: Extensive experience with S1AP, DNS, GTP, GTPV2, Diameter, NGAP, ensuring seamless communication across telecom networks.

☐ **Interfaces**: Proficient in key interfaces including S1AP, S1MME, S11, s6a, S5/S8, SGi, Gx, Rx, Gy, crucial for network functionality and operations.

☐ **EPC Call Flows**: In-depth knowledge of Evolved Packet Core (EPC) call flows across technologies including 4G, VoLTE, VoWiFi, 5G SA/NSA, and Vo-NR.

☐ **Nokia Products**:

- **EPC Products**: Hands-on experience with Nokia EPC products such as Core Mobile Gateway (CMG), Cloud Mobile Gateway (CMM), and Subscriber Profile Service (SPS).
- **Cloud Platform**: Working knowledge of Nokia's CloudBand Infrastructure Software (CBIS) and CloudBand Application Manager (CBAM).
- **5G Core**: Expertise in Nokia 5G core products including Access and Mobility Management Function (AMF), Session Management Function (SMF), User Plane Function (UPF), Policy Control Function (PCF), Charging Function (CHF), Network Repository Function (NRF), and Network Slice Selection Function (NSSF).

☐ **Cisco Packet Core**:

- Familiarity with Cisco 4G Packet Core products such as ASR5500 (bare metal), Virtualized Packet Core nodes (VPC-DI, VPC-SI), and legacy VPC-DI solutions.
- Experienced with Cisco's RCM products used in Control and User Plane Separation (CUPS) environments.

☐ **Mavenir Packet Core**: Working knowledge of Mavenir Packet Core products, including support for both 4G and 5G (SA & NSA) technologies.

Professional Experience with Mavenir Systems Pvt Ltd

Company: Mavenir Systems Pvt Ltd.
Designation: Senior Member of Technical Staff III
DoJ: 08/08/2022 to Till date.

Responsible for the Mavenir Paco Products including both 4G and 5G technologies.

End to End Handling:
AMF, SMF,UPF.PCF,NRF,NSSF

➢ Deployment of latest versions of 5GN|F's [AMF,SMF,PCF,NRF,NSSF,UPF] Mavenir paco node to customer projects.
➢ End-to-end configuration of latest versions of paco nodes for 4G&VOLTE and Vowifi networks and 5G[SA,NSA] technologies.
➢ Integration responsibilities of Paco nodes to other peer Mavenir network elements.
➢ End-to-end call testing of 4G(LTE)&VOLTE Vowifi VoNRand 5G[SA,NSA] for Mavenir customer projects.
➢ Feature testing supported for Mavenir Paco productswhich includes 4G,VOLTE and 5G [SA,NSA]Technologies.
➢ Troubleshooting knowledge on Mavenir Paco products when deployment fails or integration fails or calls fails includes LTE & VOLTE Vowifi and 5G[SA,NSA] VoNR Technologies.

Professional Experience with HCL-Technologies

Company: HCL Technologies Limited
Designation: Senior Technical Lead.
        DOJ: 07/09/2020 to Till date.
        DoL: 04/08/2022
Client: Cisco.
Designation: QA Engineer.

Responsible for the Cisco ODC Lab environments related to the solution test for OPL and ATT customers.

Responsible of Cisco ASR5500 SGW/PGW 4G packet core nodes for the Cisco major customers OPL[OrangePoland] & ATT.

Responsible of Cisco VPC[Virtualized Packet Core] nodes VPC-DI,VPC-SI for OPL customer.

Solution Test:

1 .Qualification of ATT and OPL features with high scale of [50L+].subscribers on paltfroms Asr5500 and Cisco Virtualized Packet Core nodes VPC-DI,VPC-SI.

2. Daily Regression on latest production builds with qualified features, runs on both ATT and OPL and ensuring the with higher scales both lab environments are working fine with out any crashes and abnormalities on DUT.

3. Call mode testing with feature and ensure the build pass without any crashes and abnormalities.

4. Report of crashes to development team at the time of feature qualification with higher scale subscribers.

5.Raising of bugs to development team for any abnormalities and crashes seen on DUT [Device under Test] environment

6. Ensuring the build quality on higher scale of subscribers before releasing to customer s [ATT/OPL].

7.Knowledge on Cisco Redundancy and Configuration Manager node, which is used on CUPS environment.

8. Working on Cisco virtualized CUPS nodes.

9.Solution test level feature qualification on Cisco CUPS nodes on ATT and OPL CLABs.

As a Solution test CLAB QA engineer, qualified below features.

WPS feature: WPS provides NS/EP (National Security/Emergency Preparedness) personnel priority access and prioritized processing in all nationwide and several regional cellular networks, greatly increasing the probability of call completion.

LTEMRAT : LTE-M (LTE-MTC low power wide area (LPWA)) is a new cellular radio access technology specified by 3GPP in Releases 15.4.0 to address the fast-expanding market for low power wide area connectivity. It specifically refers to specific category of LTE UEs that are suitable for IoT. LTE-M is a low power wide area technology which supports IoT through lower device complexity and provides extended coverage, while allowing the reuse of the LTE installed base.

Config MRU: This feature related to the ip packets sent from UE to the ASR 5500 with MTU size >1500 at s1u interface, Packet drop issue was triggered by customer change on of MTU on the user plane of the access network (i.e. at eNB for GTPU)LPORT_ MRU_ Exceeded identified by the customer and raised as a requirement of a feature called Config MRU.

Responsible for the Cisco end-to-end tools like LPS, Stargen and Caliper.

LPS : we use for the simulation of UE, eNB, HSS, MME, DNS nodes.

Stargen: As a USE traffic generator,

Calipers: We use caliper tool for the simulation of PCRF,OCS,IMS nodes.

CallModels: I'm responsible for the creation of TestPlans and preparation of call models related to the features and scale it up with high number of susbcribers.

CISCO Switches: Knowledge on cisco routers and switches [Nexus].

Achievements/Appreciation:
Received Knowledge Ramp up Award as a fast learner on Cisco SAEGW ASR5500.
Received Spot Award for the well perform on features owned.
Received ERS Champion Award for the well perform on features worked.
Received Applaud award for the well perform on features worked.

Professional Experience with Altran (Aricent Technologies (Holdings) Limited)

Company: Altran (Aricent Technologies (Holdings) Limited)
Designation: Technical Solutions Leader.
        DOJ: 06/01/2020 to 04/09/2020.

Client: Nokia Networks Pvt Ltd.

In my current role, as a Solution Architect where I'm responsible for the Nokia SPS (Policy & Charging) design for the customers overt the APAC regions. For the 4G&5G technologies.

Professional Experience with   Nokia Networks Pvt ltd

Company: Nokia Networks Pvt Ltd.
Designation: ENGINEER I&V
Organisation: MN CDS Telco Cloud & SRN IN3.
        Date of Joining: 03/10/2011
        Date of Leaving: 02/01/2020.

Roles and Responsibility:

I'm responsible for Packet core, EPC, Policy Charging & 5GC Packet core nodes (AMF,SMF,UPF,NRF,PCF) nodes of Nokia products CMM/MME, CMG/SGW-PGW, PCRF/SPS.

Working experience in EPC/5G nodes CMM/MME/AMF

- 3GPP SGSN/MME in Nokia behaves as a CMM (Cloud Mobility Manager)
- Deployment of latest versions of CMM nodes to Nokia Business Units, Nokia R&D teams, & Global Services Delivery Labs (GSD) globally.
- End-to-end configuration of latest versions of CMM/MME for 4G&VOLTE networks.
- Integration responsibilities of CMM/MME to other peer Nokia network elements.

- End-to-end call testing of 4G(LTE)&VOLTE for Nokia BU, R&D teams &GSD labs.
- Feature testing supported for Nokia R&D teams which includes 4G & VOLTE features.
- Troubleshooting knowledge on CMM/MME when deployment fails or integration fails or calls fails includes LTE & VOLTE.
- Deployed the Nokia AMF for the internal R&D testing & done SA call successfully.

Working experience in EPC/5G nodes CMG/SGW/PGW/SMF/UPF/NRF
- 3GPP Sgw/Pgw in Nokia similar as CMG (Cloud Mobile Gateway).
- Deployemnt of latest versions of CMG nodes to Nokia Business Units, Nokia R&D teams, & Global Serives Delivery Labs (GSD) globally.
- End-to-end configuration of latest versions of CMG/SGW/PGW for 4G&VOLTE.
- Integrtion responsibilities of CMG/SGW/PGW to other peer Nokia network elements.
- End-to-end call testing of 4G(LTE)& VOLTE for Nokia BU, R&D teams & GSD labs.
- Feature testings supported to nokia R&D teams which includes 4G & VOLTE features.
- Troubleshooting knowledge on deployment,calltestings CMG/SGW/PGW LTE,VOLTE.
- Deployed SMF /UPF for R&D testing & done SA calls successfully with Nokia internal R&D teams.

Working experience EPC nodes in SPS/PCRF

- 3GPP PCRF in Nokia behaves as a SPS (Smart Plan Suit).
- Deployment of latest versions of SPS nodes to Nokia Business Units, Nokia R&D teams, & Global Services Delivery Labs(GSD) globally.
- End-to-end configuration of latest versions of SPS/PCRF for 3G,4G & VOLTE networks.
- Integration responsibilities of SPS/PCRF to other peer Nokia network elements.
- End-to-end call testing of 3G,4G(LTE)& VOLTE for Nokia BU, BL & GSD labs.
- Policy & charging uses cases configurations for Nokia R&D teams & KDDI Japan & Vodafone projects.
- Feature testings supported for many Nokia R&D teams which includes 4G & VOLTE features.
- Troubleshooting knowledge in SPS/PCRF deployment fails, integration fails, calls fails includes 3G, LTE, VOLTE.

Working experience in Cloud/Open stack &CBAM
- I have a working experience on open stack to deploy EPC & PCRF nodes.

- Deployment of CBAMS on top of CBIS for the EPC & PCRF nodes.
- Creation of networks, keypairs, images instances, stacks, volumes, access and security groups in open stack.
- Troubleshooting & analysing knowledge in open stack by checking the logs.
- Deployment of CBAMS on top of CBIS for the EPC, PCRF & 5G PACO nodes.

Achievements & Activities:

- Learned Installation and commissioning of NE's in a short time.
- Got two star awards for putting efforts in SRNSUP & GSD projects.
- Demonstrated Life Cycle Management (LCM) of CMM&CMG to Idea Customer in 2017.

Trainings Attended:

- Attended FCO on job training in year 2014 in Changdu,China.
- Attended CMM/MME WebEx training conducted by Nokia CMM R&D teams in march 2018.
- Attended CMG/SGW/PGW class room training conducted by Nokia CMG R&D teams in June 2017.
- Attended the PCRF/SPS WebEx training conducted by Nokia SPS R&D teams in Jan-2019.
- Attended Open Stack certified Red Hat training in Aug-2018.

Professional Qualification:

Have done B. Tech in Electronics & Communication engineering from 'S.R.K Institute of Technology, Vijayawada (affiliated to JNTU-Kakinada, Andhra Pradesh) in the year 2011 with an aggregate of 67% marks.

Have done 12th from State board of Higher Secondary education, Andhra Pradesh in the year 2006 with 88% marks.

Have done 10th from State board of secondary education, Andhra Pradesh in the year 2004 with 78.5% marks.

Personal Details:

Name :   Swarna Bhanu Prasad.
Father Name: Swarna Prudhvi Kumar.
Address: Flat no B-310,Vrushabhari Mountain,Whitefield,Bangalore,KA.

Declaration:

I hereby declare that all the above information are true and correct to best of my knowledge.

Place: Bangalore.   **(S.Bhanu Prasad)**