**RESUME**

**SUSHANT KUMAR SINGH**

S/O: Mithilesh Singh, near jharudih, bekar bandh , Dhanbad,Jhkd

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**CAREER OBJECTIVE:**

To associate with an organization which gives me a chance to update my knowledge and improve my professional skills and to work towards the growth of the organization.

**QUALIFICATION:-**

**Bachelor of Technology in Electronics & Communication Engineering :-**

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| **Level** | **Course** | **Board / Institute/ University** | **YEAR** | **%** |
| Bachelor of Tech.. | B.Tech (ECE) | Rajasthan Technical University, Kota | 2015 | 73.00 % |
| Sec. School | 12th | C.B.S.E | 2010 | 60.80% |
| School | 10th | C.B.S.E | 2008 | 58.50% |

**INDUSTRIAL TRAINING:-.**

Industrial Fields - **Networking(** CCNA Certification\_TATA CMC **) Cisco ,Router, Switch,IP protocol , TCP/IP, UDP , IP protocol , L2 ,L3 layer etc.**

**WORK EXPERIENCE:- 4.8+ YEARS ....**

**4.8+ Yrs Working** Exp. **3GPP on** **" LTE Testing Engineer || LTE Protocol Testing " and** **5G-NR** Basic in Telecom Software test.

LTE Technology **& Bug** Tracking Tools. **:** **JIRA** , R&S CMW500 **| 'AT' Command** etc.,LTE Registration.

**\*** Exp.on LTE **Lab & Testing** Tools. **: R&S CMW500 | QXDM | Wireshark etc.**

**\*** LTE System integration & Gen. Test **: eNB, RAN, Attech , CSFB, S1-HO ,X2-Handover , Diameter etc**

**\*** LTE Call flow of **LTE Test Interfaces : Registration ,S1-AP,X2-AP, GTP-C/U , Diameter etc.**

**\* LTE Protocol & LTE Testing on 3GPP : RRC , NAS ,MAC Protocal ,eNB ,RAN ,S1-AP, X2-AP,CA etc.**

**\*** Exp.Wireless on **LTE Core Network :** **eNB ,S1-AP,X2-AP,EPC , MME, SGW, CUPS ,PGW, HSS, S11etc.**

**\*** Testing Scenario **TEST Cases : Conformance Testing** |  **Sainity Test | Regression Testing etc.**

**\*** Wireless LTE / LTE-A Interfaces **: S1-MME, X2, F1 ,S1-AP, S1-HO ,X2-HO , S5/S8, S6a , S11 etc.**

**\* 5G-NR Basic** Technology interface **: gNB ,SA/NSA,NGx, UPF , AMF, SMF , AuSF ,PCF etc.**

**\* LTE Protocol** Testing Based **3GPP : RRC | NAS | MAC ,X2-AP & S1-AP on Based on 3GPP**

**\*** Experience on **3GPP concept**  **: 3GPP Test Specific ( Release 8 to Release 15 etc)**

**\* RAN ( eNB ) | LTE Testing : S1-MME, S1-AP , X2-AP ,Registration , CU/DU, BBU,RRU,S1-HO.**

**\* Operating system**   **: Windows | Linux OS ( Cammands )**

**\*** Basic language programing  **: C**

**\* LTE Packet Core /LTE Advanced :-**

eNB /RAN Testing , IMS Network ( SIP / Diameter protocol), S1-AP protocol /EPC/MME / HSS /3GPP, MAC ,RRC ,IP Network Protocal /Frame structure, LTE Registration Call flow ,eUTRAN, RAN,MAC,RRC layer . MAC,Layer 3: RRC ,NAS,EPS Berier, LTE Channel Uses.

**Current Company : YBR infotechs Pvt Ltd.**

**Project Clients:**

**• Wavenet Solutions. :(**eNodeB,**S1-AP, S1/X2-HO,RRC ,NAS ,MAC,HSS, EPC, MME, SGW,**PGW,S6a, GTP ,Salinity Testing ..etc **)**

**• Vanu India Inc.:(** Conformance Test **,**eNB,RAN, S1-AP, **X2/S1-HO,RRC, NAS ,MAC, 36.523,36.331...**etc.**)**

**• Project Name : E2E Testing of eNodeB Testing | EPC Testing -- ( S1-AP Protocol , S1-MME Testing ( Registration , De-registration, Handover X2-HO,S1-HO, GTP-C/U, S6a, S5/S8, S11 interface etc. )**

**Roles & Responsibility : Test Engineer**

All the information message passes through eNB to MME then check & test functions.

Testing of ( Attach ,Detach , Handover Signalling ,X2, S1, IRATE, CSFB,SRVCC, NAS Signalling Msgs.

**• Project Name :- Validation Testing of LTE Protocol - RRC Layer Testing --**

**Role & Responsibility: - Test Engineer**

The purpose of this project is to test the **RRC procedure** and **verify the features of the handset** as per the client requirement and 3GPP standards.

UE in **RRC-IDLE ,RRC Connection Request, Paging Msg , Service REQ, Radio bearer manegement** about an incoming call and UE to re-acquire system information.**RRC connection Reconfiguration** is used to perform **Handover and configuration of measurements.**

**• Project Name: - Validation of LTE Testing :- NAS Layer Testing (Attach, Default, Dedicated Bearer Establishment, Service Request)**

**Role & Responsibility: Test Engineer**

The UE can also use **ATTECH , DETECTED, PDN Connection, Active Default beare Authentication, Tracking area updated,** this procedure for nonEPS service such as CS speech call. user wants to connect to the different PDN to that provided by the default bearer.Service Request is required if UE move from RRC\_IDLE to RRC\_CONNECTED.

**• Project Name: Validation of LTE Testing – MAC Layer Testing --**

**Role & Responsibility: Protocol Test Engineer**

The aim of the project is to verify the MAC Layer features of the device based on 3GPP standards and customer specifications in **RACHING.**

**Knowledge about TELECOM Tools:- Log Analysis, X-CAP/ Xcal Tools , QXDM, TEMS** investigation **/**TEMS Discovery**/**Xcal **/** VUZE **| Google** earth**/** Mapinfo/ Replay .( **4G, Testing & Network Signal).**

**Parameters Measurement** of RSRP,RSRQ,CQI,PCI,SINR, TX Label,Rx Label, RCCP, Io/No throughput,CID , **Google Earth, Mapinfo, & XCAP/Vuze kits etc**

**TECHNICAL /SOFTWARE SKILL:**

* Languages: C & CCNA Certification.
* Responsible for analyzing client requirement and preparing Software Requirement Specification.

**\*** Understanding of complete call flows for testing based on 3GPP

**\* T**he test cases and analyzing log files.

**\*** Bug Tracking and Reporting issues.

**\*** Understanding the signaling as per the relevant specifications.

**AREA OF INTEREST:-**

* Electronics & Telecommunication, Software Engineer , Telecom/ ISP, Manufacturer Area.

**HOBBIES** :-Playing Cricket and listening music.

**PERSONAL INFORMATION:**

Date of Birth              : 04th June 1993

Father’s Name          : Sri Mithilesh Kumar Singh

Marital Status                       : Unmarried

Nationality                            : Indian

Language Known             : English, Hindi

Permanent address           : C/O: Mithilesh Singh, Sinha, Near Sinha Bazar, Bhojpur

**DECLARATION:-**

I consider myself familiar with Electronics & Communication Engineer. I am also confident of my to work in a team

**Sign: Sushant Kumar Singh PLACE:**