

Bhanu Pratap Singh

R & D Engineer / 2 Years 5 Months

Bengaluru, Karnataka

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To pursue a challenging career in a progressive environment where learning, innovation and creativity are encouraged, where my skills and knowledge can be enhanced to their maximum potential to contribute to overall success and growth of the organization.

Experience

R&D ENGINEER / NOKIA, BENGALURU

2020/05 – PRESENT

Domain/Technology: WBTS/3G

WCDMA BTS:

- Working with WBTS CODEC L1 development team, Codec component handles all the layer 1 procedures, it consists of different components including DSPs.
- Encoding and decoding of physical and transport channels, encapsulation/de-capsulation of uplink and downlink data to/from RNC are handled as a part of Codec.
- Cell resource configurations, DSP-wide management operations such as startup, memory management and testability functions are few more functionality of codec within BTS.

Responsibilities:

- Maintaining/Developing Firmware of WBTS L1 CODEC.
- Fault analysis and throughput analysis issues related to WBTS CODED Layer 1 and resolving these issues.
- Understanding of WBTS architecture, specifically layer 1 codec components and interface between different components within L1.
- Working as per 3GPP guidelines and Feature enhancement as per 3GPP specifications on time to time basis.
- Improving system performance by making proactive adjustments and resolving bugs.
- Responsibility also includes unit testing, module testing of the new features added as an enhancement program and also writing their test cases.

SOFTWARE ENGINEER / ALTRAN, GURGAON

2018/02 – 2020/04

Client: INTEL

Domain/Technology: LTE/4G

INTEL LTE/4G Cellular Modem:

- Worked on Intel LTE/4G cellular modem Physical layer (L1), These modems are used in mobile phones, Automotive, wearable devices etc.
- As a part of Physical Layer(L1), Decoding and Encoding of data and control information are handled within different components of L1.
- Worked on one of the components within physical layer, called L1CC (Layer 1 controller component), Basic idea behind L1CC is to provide the interface between higher layers(L2/L3) and different components of Physical layer(L1).
- L1CC acts as a brain of Physical layer, it configures, controls and command other physical layer components as per the different scenarios.
- L1CC handles all the configuration messages from upper layers and apply these configurations to all components within physical layer(L1). It also provides the path for data transmission and reception to and from network.

Responsibilities:

- Maintaining/Developing Firmware of Intel cellular modem XMM7272, 7260, 71XX.
- Working with Firmware (PHY Layer) team, provided first level analysis (Back Office analysis) of crashes observed on L1.
- Understanding of Layer1 Controller Component (L1CC) and resolving issues related to controller component.
- Understanding of Physical layer architecture of Intel cellular modem along with interface between Protocol Stack and Physical layer.
- Experience in working as per 3GPP guidelines and Feature enhancement as per 3GPP specifications.
- Debug and fixed issues on LTE modem Physical layer efficiently.
- Worked closely with software development and testing team to design and develop robust solutions to meet client requirements for functionality, scalability and performance.
- Improved system performance by making proactive adjustments and resolving bugs.
- Continuously learning to keep abreast with evolution of technology, customer needs and business requirements of company, developing domain and technical competency.

Achievements:

- Received '**WOW – Excellence Award**' for Client First and consistent performance and completing tasks within time.
- Received '**Kudos**' for showing high performance and productivity level in assigned project.

Skills

- C, Basics of C++.
- Data Structures and Algorithms.
- LTE/4G.
- TCP/UDP Socket Programming
- Linux, GDB, GLIB.
- GIT Version Control.
- Operating system.
- AGILE methodology
- Code Reviews
- Designing
- Client Management
- Effective Communication
- Teamwork and Collaboration
- Debugging and Troubleshooting.

Education

B. TECH, COMPUTER SCIENCE / Noida Institute of Engineering and Technology, Gr. Noida **2013 - 2017**
73.48 % aggregate

SENIOR SECONDARY / Children's Academy, Ghaziabad **2013**
68.2 % aggregate

HIGHER SECONDARY (SSC) / Children's Academy, Ghaziabad **2011**
64.6 % aggregate

Academic Projects

- **Local Search Engine (File System Search Engine)**
Search files present in the local file system based on string/pattern entered by user and shows its content to the user along with the path of file in file system (works like crawler).
This Project was done as a part of Nalanda training at Altran.
Responsibilities: Analysis of requirements, Design documentation, Code Implementation, Planned Test Cases to test the System.
GitHub: <https://github.com/singhbhanupratap278/LSE>

- **Academic Notifier**

It is a Web and Android based application that aims at bridging the gap between students and institutions by providing notifications related to their curriculum. It filters notices on basis of a student's year, semester and section, thus students receive notifications specifically tailored to their need and curriculum.

Tools/Language Used: Java, PHP, HTML, MySQL, GCM.

- **Library Management System**

Internship project at National Informatics Centre (NIC)

It is a console based application, in this basic library management tasks like add the books, viewing the added books, search the books etc. can be done.

Responsibilities: Implementation of code, Test Cases to test the System.

Trainings and Certifications

- **Nalanda** training on C, DS, Operating System and Computer Network (Aricent, Gurgaon in Feb'18).
 - Worked as an **intern** in the IT department of **National Informatics Centre (NIC)**, New Delhi for 6 weeks and contributed in the development of the project named Library Management System
 - Completed Training on **Big Data** and **IOT** conducted by Monkfox.
 - **Barclays** training Program conducted by GTT and NASSCOM Foundation.
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Personal Details

Date of Birth: 9th May, 1996

Linguistic Abilities: English, Hindi

Nationality: Indian

Thank you for the Consideration.