**RAKESH KUMAR**

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Gurgaon , Haryana.

**Objective**

To obtain a challenging software development position that will allow me to use the strong design and development skills and continue my learning process.

**Experience Highlights**

* **Almost 3+ years** of Experience in C/C++ of development, network integration, debugging, and trouble-shooting in telecom ( **LTE )** domain.
* Working as a developer **Software Engineer** in **Aricent Groups in**  **LTE MAC L2 layer (Femtocell)**. Involved in **RLC Re-Architecture**, **Multi Sector (Macro Cell)**, **Tick Optimization**, **DCT(Data Collection Tool)** features.
* Supported customer on customer's location with **(MSS) Mitsubishi Space Software**, Osaka, Japan.
* Good Understanding on **LTE network**, different interfaces among different nodes in LTE.
* Good Understanding in **Linux, Networking, OOPs** fundamentals.
* Have worked extensively on all phases of the SDLC, right from the requirements gathering to the end-to-end testing and customer support activities.
* Have high level of expertise in problem debugging and performance enhancement.
* Highly motivated with strong analytical and development skills.
* Proven ability to work in tight schedules and efficient in meeting deadlines. A self-starter, fast learner and a team player with strong inter-personal and group communication skills.

**Technical Skills**

|  |  |
| --- | --- |
| Programming Languages | C, C++, PHP, Perl, AJAX, Core Java |
| Development/Productivity Tools | GDB, Wireshark, Clearcase, SVN , IBM Rational Clearquest, Coverity, Ethreal, VIM 7.0 |
| Protocols | TCP/IP, SCTP |
| Web Technologies | HTML, XML, WSDL, JQuery, Javascript, Shell Scripting, JSON |
| Database | MySQL, SQL Server |
| Operating System | Linux/Unix, Windows/XP |

**Academic Record**

* **Master of Computer Application (MCA) from Cochin University Of Science And Technology(CUSAT), Cochin , Karela in 2010 (CGPA 7.77).**

**Summary of Work Experience**

# Aricent Group : Customer Support MSS (Mitsubishi Space Software), Osaka , Japan for eNodeB-Femtocell Development, LTE L2 Layer.

**(Feb 2013 – May 2013)- Client Location**

**(May 2013 - till date)- Offshore Support**

**Designation: Software Engineer**

**Solution Environment - Linux**

**Protocol - L2 RLC, L2 MAC, DCT**

**Language - C**

**E-UTRAN Node B**, also known as **Evolved Node B**, is the element in [E-UTRA](http://en.wikipedia.org/wiki/E-UTRA) of [LTE](http://en.wikipedia.org/wiki/3GPP_Long_Term_Evolution) that is the evolution of the element [Node B](http://en.wikipedia.org/wiki/Node_B) in [UTRA](http://en.wikipedia.org/wiki/UTRA) of [UMTS](http://en.wikipedia.org/wiki/UMTS).

L2 RLC Layer is responsible for in-sequence delivery of data PDU's in Uplink(Rx) and Downlink(Tx).

L2 MAC Layer is responsible for mapping logical channel and transport channel, scheduling UE’s, priority handling, logical channel manipulation.

DCT(Data Collection Tool) to collect full information Transmitted with high rate data transfer with some specified MAC PDU size.

**Responsibilities**

* + Working on customer support for L2 RLC , L2 MAC.
  + Involved in DCT tool and support .
  + Bug fixing for different modules.

# Aricent Group: Multi Sector (Macro Cell) Development

**Designation: Software Engineer**

**Solution Environment - Linux**

**Protocol - L2 RLC, L2 MAC, L2 PDCP, L2 GTPU, RRC**

**Language - C**

Distributor is responsible for storing all incoming from EPC and extrectring cellId from incoming packets and forwording them to specified L2 Instance. cellId is added to each API outging and incoming to L2 for communication with any outer layer like RRC, RRM .

**Responsibilities**

* + Involved in the Devlopment of Multi Sector .
  + Unit Testing of Multi Sector by using RRC stubs/simulator.
  + Involved in integrating Multi Sector with RRC, OAM, RRM .
  + Bug fixing during integration and support.
  + Involved in preparing document and User Manual for Multi Sector.
  + Mentoring new team members.

# Aricent Group: Tick Optimization

**Designation: Software Engineer**

**Solution Environment - Linux**

**Protocol - L2 RLC, L2 MAC**

**Language - C**

Tick optimized by the means of some code level optimization , RLC level and MAC Multiple Queues and to avoid tick overshoot. Mainly check remaining time before long run processing like Operating Queues.

**Responsibilities**

* + Involved in tick optimization for the release.
  + Unit-testing, Bug fixing for the activity.

# Aricent Group: RLC Re-Architecture Rel4.0

**Designation: Software Engineer**

**Solution Environment - Linux**

**Protocol - L2 RLC**

**Language - C**

L2 RLC Layer is responsible for in-sequence delivery of data PDU's in Uplink(Rx) and Downlink(Tx). It also takes care of segmentation/reassembly of data PDU/SDU's.

Takes care of re-segmentation of data PDU's during retransmission when less opportunity is given by L2 MAC.

**Responsibilities**

* + Handling of data PDU's from L2 MAC (Rx Side), espaicially when duplicate segments received.
  + Logging activity for RLC for future debugging purpuse.
  + Unit testing and bug fixing for L2 RLC Layer.

**Career Achievements @ work**

* Won an Individual excellence award for the Multi Sector activity.
* Won a team excellence award RLC Re-Architecture.

**Academic/Other Achievements**

* Secured **93+ Percentile** (pH Score) in **elitmus 2010.**
* Secured **17th rank** in all India **CAT**(CUSAT MCA ENTRANCE TEST)
* Secured **91 Percentile** in 5th **NIIT** National IT Aptitude Test.
* Active member of SAMCA(Students Association of MCA).
* Presented seminar on “**Echelon &Tempest**”.

**Personal Information**

Fathers name : Prem Kumar

Date of Birth : 12th October 1985

Sex : Male

Marital Status : Single

Languages : English/Hindi/Punjabi/Marwari

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