



Sudhir Kumar Mishra

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Professional Summary:

- 2 years of experience in C, C++, LINUX in wireless domain.
- programming skills using POSIX API (Multi Threading, IPC Mechanisms).
- Good experience on Structure and Object Oriented Analysis and Design.
- Good understanding of implementing various design patterns.
- Willingness and ability to quickly adapt to new environment.
- Working experience in Agile/scrum.

Professional Experience:

- Working as a Software Engineer in **ARICENT GROUP**, Bangalore from 13th Dec 2010 to till date.

Professional Skills:

- Operating Systems : linux
- Languages : C,C++
- Tools : gdb, valgrind
- Frameworks : CPP Unit Testing & Framework
- Concepts : Computer System(Process, Multithreading, IPC, Signal),DataStructure, Design Patterns

Education:

- M.C.A from Biju Pattanaik University of Technology, Orissa in 2010 with an aggregate of 81%.

CURRENT PROJECT

Title	: Convergence Radio Network Controller (CRNC)
Role	: Low level design, Coding and Unit Testing in Feature Enhancement and Bug Fixing
Duration	: 12 months
Language	: C,C++
Environment	: Linux, Vxworks

Description:

CRNC is an Alcatel-lucent product, which is used in 3G network as a radio network controller. This is mainly composed of two large subsystems one is Control Node and another is Interface Node. Where Control Node deals with signaling communication and Interface Node manages traffic. I am working in Platform team , which is mainly responsible for communicating with underlying operating system and provide services to Control Node applications

This was in ATCA platform before and it is in development stage for CLOUD PLATFORM . In ATCA platform RNC has dependency on hardware as a result of which the scalability was less. So LRC(Light radio controller) comes in to picture and here it will provide minimal level of carrier grade capabilities.In LRC architecture each of the role operates as a single virtual machine(VM).No shared memory between any two componet(i.e c-plane and u-plane componets run as independent process)

There are 3 roles within RNC application and three roles provided by LRC platform .The RNC application roles are:

3GOAM-(1+1 sparing)[2+cores]-provides the wireless (OMU) and nodals(SC)OAM interfaces

CMU or cell management unit(N+1sparing)-Maintains cells,acts as the ss7 termination point and provides a proxy to the platform for transport resources management.

UMU or UE management unit-provides all uplane and c-plane processing for individual UEs.

Roles and Responsibility:

- coding and unit testing in feature enhancement of Platform
- Resolving Change Requests(Messaging & Maintenance as well as logging for all applications)

PROJECT #1

Title : Packet Analyser tool

Role : Analyst, Design, Coding & Testing.

Duration : 3 months.

Language : C

Environment : Linux.

Description:

This Tool is used in RNC to see the packet flow from client to server and packet drops also.

Roles and Responsibility:

- Analyzing the requirements.
- Designing the system in Object oriented approach.
- Programming the system by using C language.
- Unit Testing and Integration Testing.

Personal Details

Father's Name: Sarat Mishra

Date of Birth : 1st july 1987

Gender : Male

Nationality : Indian

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