**D.K. Rout**

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**SKILL/EXPERIENCE SUMMARY:**

I have2.8+ years of experience in design, development and testing application software. My technological forte is C and C++ on Linux platform. Extensively worked on application development.

**PROFESSIONAL EXPERIENCE:**

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| **Organization** | **Designation** | **From** | **To** |
| Plintron Global Technology Solutions (Chennai) | Developer | Oct 2012 | To Tilldate |
| CMC Limited(Hyderabad) | IT Engineer | Oct 2010 | Oct 2012 |

**TECHINICAL EXPERTIES:**

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| Operating Systems | Linux (RHEL5), Windows XP, Solaris. |
| Languages / Scripts | C, C++, Shell Script, Makefile,ProC. |
| Protocols | TCP/IP,UDP. |
| IPC Mechanisms | Multithreading,Socket Programming. |
| Trouble Shooting | Source code debugging using GNU debugger (GDB). |
| Exposure to compilers | GCC, G++. |
| Version Control | Vss ,Clearcase, Accurev. |
| Packages | Microsoft Office, Open Office. |

**ACADEMIC QUALIFICATIONS:**

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| **Year of passing** | **Institution** | **Degree** | **Board/University** | **Percentage (%)** |
| 2007 | Synergy Institute of Engineering and Tech. (Dhenkanal) | B.Tech (Electronic and Telecommunication Engineering ) | BPUT, Rourkela | 70.04 |

**PROJECT1:**

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| Project Title | Real-time Rating and Billing System(RRBS) |
| Project Duration | OCT 2012 to Till Date |
| Project Description | Real-time Rating and Billing System is basically a product which takes care of charging system (charge/price) of Lycatel .This application is a multithreaded application. When the application is up different threads will be waiting for messages in different ports. Communication happened with other module by sending and receiving messages by sockets. This application interacts with the other module like ( USSD, IVR, SMSC. etc) by XML request and web request. We store complete information of a subscriber in the Oracle Database. Plan and Call charges are configured in SMP (Service Manage Platform). |
| Role | Development and Testing. |
| Client | Lycatel(UK). |
| Responsibilities | 1) Primary responsibility was to implement the enhancements mentioned in BRD (Business Requirement Documents).  2) Fixing the production issues (Hot fix).  3) Developing Simulator to test the application.  4) Developed an automation tool to test the application which helped to test all functionality within the limited time period.  5) Preparing the document for the release process. |
| Software and tools | Gdb(6.8). |
| Development platform | Sun Solaris 5.10. |
| Database | Oracle 10g. |
| Language | C, C++, ProC, Makefile, GCC, vim, Shell Scripting, IPC. |

**Project 2:**

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| Project Title | System Configuration Tool (SCT) |
| Project Description | System Configuration Tool is used to create and maintain the screen graphics, devices and code system tabling for the databases used across ASTS CAD systems. An SCT database is a graphical model of an actual railroad or transit track layout. The model is used by the control system software to monitor and control wayside devices. The actual rail road or a transit track layout in the form of Function Assignment Sheet is used as the basis by SCT to create the screen graphics. SCT uses the Graphical Display Layout Editor to create the screen graphics. Once the screen graphics are created, SCT generates the database which is a set of flat files containing all the information about the wayside devices.  The database created by SCT is used by the control system software to make decisions on monitoring and controlling the wayside devices at run time. The control system software stores all database records in the memory during startup using the Support Database Library. |
| Role | Development and Testing |
| Client | Ansaldo STS (USA) |
| Responsibilities | 1) Primary responsibility was to implement the enhancements to the product, Software Change Request (SCR) and System Problem reporting's (SPR).  2) Implementation and maintenance of the product, code reviews.  3) Involved in Writing the Work Order for the implementation and Test Procedure Documents.  4) Working on Quality related things like Peer Code Reviews, Peer 5) Test Procedure Reviews.  6) Regular interaction with Users/Clients. |
| Software and tools | Gdb. |
| Language | C++, Make, shell scripting. |

**Project 3:**

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| Project Title | Xerox(OS Neutrality) |
| Project Description | Description: OS neutrality aimed to porting the Xerox proprietary application Free Flow Print Server (FFPS) which was developed in salaries OS needs to be ported to Linux and windows Operating Systems and should run independent of Operating Systems.  Standardization of FFPS application is done to find the equivalent system calls in Linux, and wrappers are written for those. The system calls which are not available in Linux are developed in conversion phase. As part of implementation phase, these system calls are integrated and tested with FFPS application. |
| Role | Development and Testing. |
| Client | Xerox, USA. |
| Responsibilities | 1. Environmental and Make file changes.  2. System calls analysis.  3.Complilation of existing C code with g++ compiler  4. Unit level testing of developed system calls by Google test. |
| Software and tools | Gdb, Dbx |
| Language | C++, C, Make , shell scripting, Multithreading |

**PERSONAL DETAILS:**

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| Gender | Male |
| Fathers Name | Dasarathi Rout |
| Nationality | Indian |
| Communication Address | 2/156,Kamarajar Salia,Mettu Colony  ,Manapakkam,Chennai -600125,TamilNadu. |