**1. Sandvine Technologies - Bangalore, India (April 2017 – Aug 2017):**

**1. Title : S9 Interface Development on PCRF**

**Précis :** Enhanced the existing PCRF Node by adding multiple Daimeter AVP parsing and handling at S9 component.

Added support for new SNMP alarms related with S9

Improved the quality of exiting code-base by resolving some key legacy ssues.

**Hardware / OS :** RHEL Based Sandvine’s Propietary SDE (Service Delivery Engine)

**Accountabilities :** Design, Development, Unit Testing, Code review, Resolution of production and QA found component and system level bugs.

**Tools/ Technologies :** C++, gcc, gdb, Diameter, SNMP, Clearcase, Wireshark, Make

**2. Cisco Systems- Bangalore, India (March 2013 – April 2017):**

**1. Title : Inter-Chassis Session Redundancy (ICSR)** **on MME (Mobility Management Entity) Node**

**Précis :** Feature to ensure the complete redundancy of a chassis in case of complete chassis failure.

**2. Title : EMBMS (Evolved Multimedida Broadcast Multicast Service) Support Development on MME Node**

**Précis :** Adding EMBMS related interfaces to MME node of LTE Packet core and resolution of Production and QA found bugs

**3. Title : CSFB (Circuit Switched Fallback) Enhancements for Ultracards on MME Node**

**Précis :** Enhancements to CSFB component on the MME node to support ultra-cards (multiple devices with same IMSI) seamlessly.

**4. Title : Heuristic Paging on MME Node**

**Précis :** Enhancements to the Paging Component of MME node of LTE Packet core and resolution of Production and QA found bugs

**5. Title : Code optimization on MME Node**

**Précis :** Code optimization and refactoring to existing code to reduce memory footprint of key processes and better handling of failure scenarios.

**Hardware / OS :** Linux based Cisco’s proprietary ASR5K/Star OS.

**Accountabilities :** Design, Development, Unit Testing, Code review, Resolution of production and QA found component and system level bugs.

**Tools/ Technologies :** C, Python, Bash, eGTPC, S1-AP, M3, LTE, EPC, gcc, gdb, git, bitkeeper, Wireshark, Make

**3. Ingersoll Rand International (India) Pvt Ltd- Bangalore, India (August 2011 – March 2013):**

**1. Title : Remote Management Services’ Connectivity Module**

**Précis :** ARM-Linux based Connectivity Module to fetch data from Devices on BACnet over IP and MODBUS and Send it over XMPP to remote server.

**Accountabilities : Design and Development** **bacnetscan** **app** to capture data and alarms from BACnet Control unit.

**Design and Development** of **web based configuration app** to customize and configure Connectivity Module.

**Complete Automation** of Connectivity Moduleto ensure auto start of all apps, critical process monitoring, restoration and email notifications.

**2. Title : ZigBee data logger**

**Précis :** ARM-Linux based device to fetch data from Devices Communicating on ZigBee protocol and send it over FTP to remote server.

**Accountabilities : Design And Development** of Python based app to sniff and capture data packets from a network of devices communicating on ZigBee.

**Complete Automation** of data logger boxto ensure auto start of all apps, critical process monitoring, restoration and email notifications.

**3. Title : Small Commercial Converged Controller**

**Précis :** ARM-Linux based converged controller for complete automation of Energy Usage of small/medium commercial establishments.

**Accountabilities : Design and Development** of **Access Control App** to control Access and Time and Attendance.

**Design and Development** of **Point Manager App** to manage Scheduled Switching of Electrical Devices connected through Relay switches to GPIOs.

**Automation** **Scripts** to ensure auto-start, Critical Process Monitoring and Email notifications.

**Hardware/OS :** TI’sARM Sitara based Custom Board **/** Ubuntu-11.04

**Tools/ Technologies :** C, C++, Bash, serial port communication, POSIX threads, SYS V IPC, Eclipse, gcc, gdb, Wireshark, Make

**4. IBM India Pvt Ltd.- Bangalore, India (June 2009 – March 2011)**

**1. Title : BMP (Business maintenance platform) Ticketing Tool (Automation Project)**

**Précis :** A Tool used for creating the incident for the AT&T end users.

**Accountabilities : Design and development** of an application to validate the fields of tickets automatically, and Update the database accordingly.

**Handling of Production and QA found Bugs.**

Enhancement to migrate a field in ticket from IPV4 based address to IPV6 based address.

Handling change-requests.

**Deployment Platform :** UNIX

**Tools/ Technologies :** C++, Bash, Oracle 10g, Eclipse, gcc, gdb, Make