

## Projects at Motorola: (Aug 2010 – Jun 2013)

- **PCRF Simulator**  
Developed Policy Charging and Rules Function Simulator which simulates IP Multimedia Subsystem Diameter Rx interfaces Used for testing Quality of Service. This Simulator development was done in C++.
- **Push To Email**  
Developed Push to e-mail Feature which sends voice alerts to users email. .This was developed over iDEN network and was showcased as one of iDEN's use case. **Integrated Digital Enhanced Network (iDEN)** is a mobile telecommunications technology, developed by Motorola.This Prototype was showcased in Srjana , a technical Symposium in Motorola. Language used : C++
- **Dispatch from Facebook**  
Implemented Dispatch from Facebook Feature. This was developed over iDEN network. This was also developed as prototype and was showcased at Srjana , a technical Symposium in Motorola and gained lot of appreciation from higher management. Languages used: C++ ,Java
- **Multiple iDEN Gateway(iGW)**  
The 3G iDEN Gateway System (iGW) is an interface between an existing iDEN TDMA system and a generic 3G Access Network (actually any SIP/IP based system that conforms to the iGW interface).  
Implemented major changes with component called Pseudo iDEN Home Location Register (PiHLR) in iGW.This was done in C++.
- **Network Element Simulator**  
The iDEN Network Element Simulator is a full featured test bed for the iDEN Operator Maintenance Console. It functions as a set of network elements that are configured to interface to the Operator Maintenance Console.  
Implemented new features in Network Element Simulator. Languages used: C++ and Java.
- **Broadcast Application Client(BAC).**  
The **Commercial Mobile Alert System (CMAS)** is an alerting network designed to disseminate emergency alerts to mobile devices such as cell phones and pagers. BAC provides GUI of CMAS to operators which enables them to Broadcast Messages to Group of Users.BAC Development was in Java.
- **Lab Monitoring Tool**  
Developed Lab Monitor Tool that enables Monitoring of Lab Machines. Used Expect scripts and Perl CGI .This Tool automatically tries to log in to Lab machines and fetches status of each machine. This collected data is then organized and displayed in Browser.

### **Internship at Wavesat, Bangalore (Jan 2010-May 2010).**

During my Final Semester I was selected for internship at Wavesat. Involved in Development of an application that enables configuration of WiMAX Customer Premises Equipment of Wavesat (CPE) .A GUI application was developed for easy configuration of CPE. Development was mainly in Perl CGI and backend was in C++ .

### **Academic Projects:**

#### **Location based tweets:**

A web based Mobile application was developed to search tweets based on location. The location can be updated with a marker on google maps. Google map API was used to integrate google map on to the browser. Implemented a proxy server with PHP to call twitter API which gets tweets taking co-ordinates as input.

#### **Remote monitoring system.**

Screenshot are taken in the Remote System which are sent to server. In server side Screen shot are received and stored in server's File System before displaying. Remote computers File System can also be explored. Java functions for listing files and directories are used at client implementation. The enlisted files and directories are stored in string array and sent to server.