**Project proposal**

LTE Network Shakedown App

**Title**

Android app for gathering mobile network details

**Background**

Despite the existence of some apps, they force the installation of a firmware in the device in order to access some functions that allow scanning some data from the mobile network. In light to this, CYCLOID, a company in the mobile and communications market, felt the need for a free, easy to port app, that would convert Android devices into network analyzers with as little modifications has possible.

The main goal is to create an application that would allow users to scan the network and acquire detailed information. This application should require very minimal changes in order to function in another device.

**Objetives**

* Identify required details from mobile network, and which can be acquired with Android API and which need native API
* Design an App that will acquire and save all required details from the mobile network
* Create UI that allow the user to analyze the gathered information
* Craft a Native C library to access low level functions
* Keep each device specifics separated and has minimal has possible
* Allow data to be exported to na online database

**Justification**

The Project will allow me to consolidate my Android knowledge. It will also give me experience in Apps creation and deploying, which are increasingly mandatory, work in Android native C which is a rare and valuable experience. Not to mention to work with CYCLOID and performing a business-ready product. Although working alone i will take this chance to maintain a Schedule and enforce milestones.

**Scope**