ECE Senior Design Weekly Report

Engineer’s Name: Mark Luna Date: 3/2/17

Team Name: The Globetrotters Lab Section: 4, Thursday 12:30 PM

Week’s Task: Produce project software block diagrams/flow charts, find ways to show more data on the GUI, continue debugging external script to show the map without the desktop application running.

Results:

* Separate logical flow charts for the projection/data handling and microcontroller components of the project were produced and are included in the project proposal as well as on Google Drive for potential changes down the road.
* Managed to dynamically change MapTip (tooltip) information through a python script. At this point, tooltip information is the same for every location that the mouse is hovered over if the information is hard coded in the script. More dynamic data extraction from the .csv file onto the tooltip may be possible by using HTML within the python script, which would allow us to display different information for each location. At this point, however, attempting this has resulted in incorrect and incomplete data showing on the tooltip for each location. On top of this, a solution has not been found to show the tooltip through a script command so that they may appear without the need for a cursor to be dragged over the desired location. This is still being considered.
* Still unable to import QGIS and Qt libraries into an external python script. There appears to be no solutions online for this specific instance of the error that is produced. We are currently considering running the QGIS Desktop application and internal script from an external startup script at operating system bootup time, in which case the internal script would run within the integrated python command line of QGIS Desktop and we would need to find a way to show the map canvas in full screen mode.