ECE Senior Design Weekly Report

**Engineer’s Name:** Leon Tran             **Date:** 02/08/17

**Team Name:** The Globetrotters **Lab Section:** 4

**Week’s Task:** Create a Team Roster and research ways to display the information on the map

**Results:**

* **Constructed a Roster**
* **Quantum Geographic Information System** (QGIS)
  + <http://spatialnews.geocomm.com/articles/qgisreview/>
  + <http://docs.qgis.org/2.14/en/docs/user_manual/preamble/features.html>
  + An open-source GIS platform that supports a wide base of geospatial vector, raster file types, and database formats
  + Direct viewing and exploration of spatial data
  + Wide variety of additional plugins
    - **Geographic Resources Analysis Support System** (GRASS)
      * Has a worldwide database
      * Geospatial Data management and analysis
  + Can be displayed on the actual globe or on separate machine such as a tablet.
* **Projection Mapping**
  + **Splash (**<https://github.com/paperManu/splash/wiki>**)**
    - Modular mapping software for Linux
    - Primary focus is on Fulldome mapping
    - Viable option to display the world map onto the globe using a single projector while maintaining high picture quality