Hunter Griffin

Ryan Eslick

Austin Brown

Carter Church

Daniel Bangham

**Progress Report Number One**

**Current State of Project:**

* Ryan and Carter have already purchased sdr’s and are ready for experimentation
* Austin’s SDR is coming in the mail within the next few days.
* Researching software to assist with the investigation of given black-box system.
* Researching different file types for storing and analyzing recorded signals

**Major Project Issues/Obstacles Identification and possible solutions:**

*Obstacles)*

1. Must identify and receive black box system
2. Discovered rtl-sdr v3 dongles are RX only
3. Trying to scan 25MHz-1.8GHz band with sampling rates in the millions quickly becomes a large data problem

*Possible Solutions)*

1. Take spectral scans of AM/FM ranges to practice working with spectral analysis tools
2. Review scope of project with Professor to ensure this will not be a problem
3. Use server resources if necessary for processing data more efficiently than would be possible from a laptop and using the inspectrum tool to export specific samples to their own individual file

**Next Sprint Objectives:**

* Continuing research of third-party software that will help with investigation of black box system
* Configure server for remote access to rtlsdr(s) and black box system to accommodate virtual collaboration due to social distancing constraints
* If black box system is received, begin scanning/capturing