Statement of Work sept/6/2018

* Why this project?
  + Software defined radio is very useful and relatively new to the common user (been around for decades but was to very expensive before)
  + It allows for highly flexible radios on relatively simple and cheap computing hardware
  + To make this prototype clear, and simple for others to take and recreate/ buy a kit for.
* Requirements (minimum expected work and stretch goals)
  + Phase 1 (completed by the end of semester 1)
    - Create a complete parts list and software list for the final product in the video series.
    - Create a solid proper schematic as shown in the videos (or better then)
    - Make sure it runs on standard us power.
    - Build the first prototype to his specifications based on the schematics we created by the end of the first semester
      * Must be able to receive known sources and transmit in a proper and safe way.
    - Stretch goal – make a nice box for it (clear plexiglass)
  + Phase 2 (completed by senior design day)
    - Streamline the prototype
    - Test it to identify areas of improvement
    - Build a custom circuit board for the device
    - Make it a kit (easy to find and assemble)
    - Stretch goals – run on a 12-volt battery
    - Stretch goals – make it run with the tensy and a member of the raspberry pi series.