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Project Charter

**Objective:** Create a software defined radio using the kit provided, and integrated with software. It will be able to receive and transmit signals via an antenna attached to the hardware.

The hardware will be responsible for:

* Communicating with the antenna
* Filtering input to the correct frequency and amplifying it to a detectable voltage level
* Transmitting data via the antenna using the output from the software

The software will be responsible for:

* Automatic Gain Control (AGC)
* Retrieving the intelligence from the Waveform
* Amplifying the intelligence to an audible volume
* Determining if there is data that needs to be transmitted, via either an analog input, or a serial/parallel input port.
  + This implies that the software will also be responsible to generating the correct AM/FM waveform for the corresponding data being input.