2.12 Software Defined Radio Weekly Status Report

March 13, 2019   Submitted by: James Bell

Course Instructor: Mr. Welker
Faculty Advisor: Dr. Stapleton
Sponsor: Texas State University

Team Members:
James Bell [PM]   Zachary Schneiderman
Samuel Hussey

Red   Current Project Status

We have burned out the Teensy due to a miss wiring of the microphone. A new one will be in our possession Thursday morning. From there we will have to make up lost time and implement the microphone. We can also start testing the receiving portion of the front end as we discovered the arbitrary function waveform generators on campus can create a SSB modulated signal.

Individual Updates (Activities Completed, Activities Planned)

James	Research demodulation of SSB signals and create a modulated waveform for testing the receiving side of the radio.
Zachary	Implemented code to control LCD with the rotary encoder, next week will work on implementing and testing subsystems together.
Samuel	Finished switching relays and worked on implementing mic with teensy and speaker. Next week I will continue working on mic implementation with more care in order to start audio tests.

Upcoming Deliverables (course and project due in next 2 to 3 weeks)

Deliverable	Due Date	Status
Mixer Circuit	2/20/2019	In progress
Audio Pass through	3/13/2019	In progress
Demodulation of SSB Signal Testing	4/1/2019	In progress

Sponsor and Faculty Advisor Meetings/Calls Held & Planned

Who	Last	Topic(s)	Next
Mr. Welker	3/13	Weekly Meeting	3/27