

2.12 Software Defined Radio Weekly Status Report

April 17, 2019

Submitted by: James Bell

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

Team Members:

James Bell [PM]
Samuel Hussey

Zachary Schneiderman

Yellow Current Project Status

We have the receiving side of the radio working with Lower sideband modulated signals. Specifically playing "Queen - we are the champions". The upper sideband will be checked as I write this. We have got all but the microphone connected, which we are working on today as well. This upcoming week we will be verifying receive and collecting data for it as well as very carefully connecting the microphone and looking at the code for transmit.

Individual Updates (Activities Completed, Activities Planned)

James	Research modulation of SSB Signals, created Upper and lower Sideband converter so we can create many variations of audio files, and helping with transmit code.
Zachary	Get radio cleaned up and enclosed
Samuel	FDR prep, receive testing, and research for mic implementation. Planning to clean up wiring and implement frequency limitations based on license level.

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

<u>Deliverable</u>	<u>Due Date</u>	<u>Status</u>
Relay Implementation for transmit	4/5/2019	Done
Transmit Code Implementation	4/17/2019	In Progress
Microphone implementation	4/10/2019	In Progress

Sponsor and Faculty Advisor Meetings/Calls Held & Planned

<u>Who</u>	<u>Last</u>	<u>Topic(s)</u>	<u>Next</u>
Mr. Welker	4/17	Weekly Meeting	4/24