

## 2.12 Software Defined Radio Weekly Status Report

March 27, 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

### Red Current Project Status

We have found out how to create SSB signals on the function wave generators in the labs and started receiving testing with the radio. We are seeing some complications with the mixers and are working on finding the source. After talking with Dr. Stapleton it is possible we did not have the modulated signals amplitude high enough to be seen on the oscilloscope or heard with the speaker. We will meet Sunday to do more testing and research about this problem as well as try and clean up wiring as to limit or avoid possible shorts or wire related problems.

### Individual Updates (Activities Completed, Activities Planned)

James	Research demodulation of SSB signals and created a modulated waveform for testing the receiving side of the radio. I will be trying to identify problems with the receiving side of the radio and correct them.
Zachary	Receive radio testing and speaker volume research.
Samuel	Receive radio testing, and I will continue researching mic implementation with more care.

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

<u>Deliverable</u>	<u>Due Date</u>	<u>Status</u>
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

<u>Who</u>	<u>Last</u>	<u>Topic(s)</u>	<u>Next</u>
Mr. Welker	3/27	Weekly Meeting	4/3