

## 2.12 Software Defined Radio Weekly Status Report

March 6, 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 begun working on the human interface and code for those devices. We can control the frequency selected through the interface. We have also got a working LCD display with our project name, frequency tuned to, license level, band selected and room for more. We are still assembling and coding audio pass through test for demo on March 13<sup>th</sup>.

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

|         |  |
|---------|--|
| James   | Research demodulation of SSB signals in progress and working on LT spice Documentation.  |
| Zachary | Code working for frequency changing, rotary encoder, and screen  |
| Samuel  | Finished relay circuits for reception/transmission, next week will fix 20m bandpass filter issues and work on subsystem testing. |

### 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   |
| Speaker Circuit    | 2/20/2019       | Completed     |
| Audio Pass through | 3/13/2019       | 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 | 3/6         | Weekly Meeting  | 3/13        |