

## 2.12 Software Defined Radio Weekly Status Report

April 24, 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 are down to the wire trying to get the transmit working. We have also discovered an inconsistent power problem to the audio frequency power amplifier which we will be fixing by rewiring the power board and checking all wire connections on the device.

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

|         |  |
|---------|--|
| James   | Research modulation of SSB Signals, helping with transmit code, creating the senior design day power point, updating/delegating paperwork, doing team report and doing final report. |
| Zachary | Re-do the radios power board, transmit code, microphone implementation, senior design day poster, code commenting, team and individual reports.                                      |
| Samuel  | Re-do the radios power board, transmit code, microphone implementation, update the diagrams, LTspice documentation, team and individual reports.                                     |

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

| <u>Deliverable</u>                                     | <u>Due Date</u> | <u>Status</u> |
|--|-----------------|---------------|
| Transmit Code Implementation                           | 4/17/2019       | In Progress   |
| Microphone implementation                              | 4/10/2019       | In Progress   |
| Senior design day poster                               | 4/29/2019       | In Progress   |
| Senior design day power point                          | 4/29/2019       | Done          |
| Get Function wave generator for senior design day demo | 5/7/2019        | In Progress   |
| Put radio in enclosure for safety                      | 5/7/2019        | 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 | 4/24        | Weekly Meeting  | 5/1/2019    |