

2.12 Software Defined Radio Weekly Status Report

April 3, 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 the receiving side of the radio working. We are now working on implementing the microphone and more research in to modulating signals. Our goal next week is to get the transmit side of the radio working.

Individual Updates (Activities Completed, Activities Planned)

| | |
|---------|--|
| James | Research modulation of SSB Signals, and microphone implementation |
| Zachary | Clean up receiver noise, help wire up relay control |
| Samuel | Receive testing on 80m band, need to research and implement mic as well as code to flip relays between receive and transmit. |

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 | Done |
| Audio Pass through | 3/13/2019 | Done |
| Demodulation of SSB Signal Testing | 4/1/2019 | Done |
| Relay Implementation for transmit | 4/5/2019 | In Progress |
| 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 | 4/3 | Weekly Meeting | 4/10 |