|  |  |  |  |
| --- | --- | --- | --- |
| 2.12 | Software Defined Radio Weekly Status Report | | |
|  | February 20, 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 |
| The micro-controller and the audio shield have come in and we are working on the code for the project. We have discovered the RF splitter has an 80% loss of voltage putting it well below what is needed to pass in to the mixers, which is something we are going to have to work on and study as the RF splitter and combiner may both have this loss characteristic and it will be a serious problem. | |

|  |  |
| --- | --- |
| Individual Updates (Activities Completed, Activities Planned) | |
| James | I have built a 7-volt power regulator to operate the mixers appropriately, tested said identified a problem with the RF splitter/Combiner components and have been doing research on the issue. I intend for this to be fixed before Wednesday next week. |
| Zachary | Finished NE612 board, just need to interface with clock generator. Got LCD screen working as well as the rotary encoder. |
| Samuel | Redesigned, tested, and constructed 20m and 80m bandpass filters. Implemented and tested with current system. |

|  |  |  |
| --- | --- | --- |
| Upcoming Deliverables (course and project due in next 2 to 3 weeks) | | |
| Deliverable | Due Date | Status |
| Bandpass Filters | 2/13/2019 | Completed |
| Mixer Circuit | 2/20/2019 | In progress |
| Speaker Circuit | 2/20/2019 | In progress |
| LCD for Teensy | 2/20/2019 | Completed |
| Encoder for Frequency Selection | 2/20/2019 | Completed |

|  |  |  |  |
| --- | --- | --- | --- |
| Sponsor and Faculty Advisor Meetings/Calls Held & Planned | | | |
| Who | Last | Topic(s) | Next |
| Mr. Welker | 2/13 | Weekly Meeting | 2/20 |
| Dr. Stapleton | 2/20 | Possible solutions to extreme voltage lose on bifilar toroid splitter and combiner. | 2/21 |