

2.12 Software Defined Radio Weekly Status Report

February 13, 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

The micro-controller and the audio shield for it have been burned out by accident. Another one should be arriving by 5pm 2/13/2019, This has not set us back to far time table wise but until it arrives, we are missing 2 key components of the project.

Individual Updates (Activities Completed, Activities Planned)

James	I have gotten the in-phase and 90 degree out of phase signals to be generated by the clock generator, reducing the physical complexity of the design. I will also be updating documents.
Zachary	RF amplifier is fully tested and working, with a gain of about 25 at 3MHz. Working on the enclosure.
Samuel	Assembling and began testing bandpass filters.

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

<u>Deliverable</u>	<u>Due Date</u>	<u>Status</u>
Bandpass Filters	2/13/2019	In progress
Mixer Circuit	2/20/2019	In progress
Speaker Circuit	2/20/2019	In progress
LCD for Teensy	2/20/2019	In progress
Encoder for Frequency Selection	2/20/2019	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	2/13	Weekly Meeting	2/20
Dr. Stapleton	2/12	How to avoid burning out any more circuits on the radio, a lesson in powering things.	2/18