

Group number: 18

Project title: Radio Frequency Readout Device (RFRD)

Client &/Advisor: Dr. Qiao

Team Members/Role: Brandon Baxter/Team Leader, Vaughn Dorsey/Team Webmaster, Luke Myers/Team Communication Leader, Kurt Turner/Team Key Concept Holder, Aaron Haywood, Robert Buckley, Mehdy Faik, Kellen Yoder, Michael Miller

o Weekly Summary

This week we successfully completed and submitted the poster for our project. We also did further work on our final document. On the technical side of things, we received version two of our IC PCB board and soldered on its parts. Less fortunately, the antenna cutting for our most recent antenna design did not work as the copper being utilized was too soft and thin.

o Past week accomplishments

- Brandon Baxter: Worked on...
- Vaughn Dorsey: Wrote rudimentary code to power the Arduino for the reader and modified the reader software to work with it. Seems to work alright, but needs further testing. Also helped work on the poster.
- Luke Myers: Over the past week I worked on completing further parts of the design document.
- Kurt Turner: Fixed errors on rev A IC board. Built and tested rev B of the IC Prototype board. Poster and design document work.
- Aaron Haywood: design document
- Robert Buckley: Worked on the poster, the design document, and the powerpoint slideshow for the final presentation.
- Mehdy Faik: Poster, re-assembled rectifiers for final antenna setup. Antennas failed to cut; I have alternative methods in mind.
- Kellen Yoder: finalized poster
- Michael Miller:

o Pending issues

- Brandon Baxter: Worked on...
- Vaughn Dorsey: None currently.
- Luke Myers: None
- Kurt Turner: Noise, well not as much as before. Inadequate equipment capabilities.
- Aaron Haywood: design document
- Robert Buckley:
- Mehdy Faik: At the rate hardware logistics have been I might just have to resort to making my own pair out of appropriately sized wires. Currently trying to work with the machinist on it.
- Kellen Yoder:
- Michael Miller:

o Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulativ e</u>
Brandon Baxter			
Vaughn Dorsey	Software Development and Testing, Poster work, and meetings	9	43
Luke Myers	Worked on the weekly report	4	57
Kurt Turner	IC Prototype testing and building Poster and Design Doc.	10	84
Aaron Haywood	design document	5	51
Robert Buckley	Poster, Design Document, and Slideshow	5.5	73
Mehdy Faik	See above	3	73.5
Kellen Yoder	poster	4	45.5

Michael Miller			
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o Plan for coming week

- Brandon Baxter: Worked on...
- Vaughn Dorsey: Get all of the information regarding the GUI development process and documentation on how to use it put into the final report. Work on the reader portions of the slide show.
- Luke Myers: Finish my work on the design document/submit it. Work with my team on the powerpoint presentation.
- Kurt Turner: Finish design document and IC prototype documentation.
- Aaron Haywood: presentation and design document
- Robert Buckley:
- Mehdy Faik: Last minute prep items.
- Kellen Yoder: work on presentation
- Michael Miller:

o Summary of weekly advisor meeting

4/11/17

This week we demonstrated the basic operation of version one of our IC PCB. This was the first time we conducted actual hardware implementation for Dr. Qiao. Next week he would like to see a full system demonstration of our project.