

## **EE 492 WEEKLY REPORT 9**

**Date: 10/28/2016**

Group number: DEC1619

Project title: Drive Circuitry for Ultrasound Brain Simulator

Client &/Advisor: Dr. Bigelow

Team Members/Role: Zechariah Pettit – Team Webmaster, Honghao Liu – Key Concept Holder, Miguel Mondragon – Team Leader and Communications

### **✓ Weekly Summary (Short summary about what you did this week)**

Weekly meeting with Dr. Bigelow to discuss PCB work, parts, and testing plan ideas. PCB and parts order arrived and time to work on soldering was scheduled by Zech and Miguel. Tom was able to create 3 channel results with accurate phase and duty cycle control.

### **✓ Past week accomplishments (please describe as what was done, by whom, when)**

- ❖ Group meeting to discuss soldering plans, questions regarding soldering, and discussion of results for Launchpad and time table for the remainder of the semester.
- ❖ Zech and Miguel began soldering work on the PCB test board, testing of functionality will commence once the boards pins are properly mounted.
- ❖ TI Launchpad programming by Tom will continue but in a limited fashion with the only remaining goals is the functionality across all 8-channels.
- ❖ Individuals continued documentation preparation as well as preparation for meeting with 492 Professor where a mock presentation will be held.

### **✓ Pending issues (if applicable)**

- ❖ Second professor meeting has been scheduled and presentation slides for this meeting need to be worked on.
- ❖ PCB soldering work presents a unique problem as pins on OpAmp are difficult to keep from bridging.

✓ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Honghao Liu	TI Launchpad Programming, presentation slides.	3	32
Miguel Mondragon	Soldering work, administrative work, presentation slides.	5	36
Zechariah Pettit	Soldering work , presentation slides.	4	31

✓ **Plan for coming week (please describe as what, who, when)**

- ❖ Meeting with Dr. Bigelow 11/3/2016.
- ❖ Preparation for 492 Professor meeting on 11/11/2016 is being undertaken by all members.
- ❖ Zech and Miguel continue working on soldering and testing of test PCB.
- ❖ Tom continues work on TI Launchpad Programming in a limited fashion.