

EE 492 WEEKLY REPORT 10

Date: 11/4/2016

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)

Soldering work on test PCB continued with successful testing of voltage amplifier at predicted input signal. Soldering problems with filter segment are still under review. Meeting with Dr. Bigelow regarding questions for presentation and questions for the current amplifier.

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

- ❖ Soldering and successful testing of voltage amplifier was completed by Miguel and Zech. Essentially functional under predicted input signals.
- ❖ Miguel continues soldering work on filter segment currently small pin spacing is leading to bridging of pads that make the circuit unusable.
- ❖ 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.
- ❖ Work regarding current amplifier (the design was dependent on results of the voltage amplifier) need to be completed quickly.

✓ **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	35
Miguel Mondragon	Soldering work, administrative work, presentation slides.	4	40
Zechariah Pettit	Soldering work , presentation slides.	4	35

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

- ❖ Meeting with Dr. Bigelow 11/10/2016.
- ❖ 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.