

## EE 491 WEEKLY REPORT 11

Date: 4/11/2016

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 Webmaster

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

Weekly meeting with advisor to discuss plans for PCB board work, TI Launchpad programming, and possible need for changes to designs. Individual work on programming for Launchpad, Multisim simulation of designs, PCB board layout work, and individual research into alternate design ideas if needed.

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

- ❖ Group meeting attended by all to discuss PCB layout concerns, design concerns, and discuss work on the TI Launchpad programming.
- ❖ Work on newest iteration of Multisim model and PCB layout work continued by Zech and Miguel.
- ❖ TI Launchpad programming work continued by Tom.
- ❖ Individual work on website, small documentation changes, and presentation slides work continued.

### ✓ Pending issues (if applicable)

- ❖ PCB design work and ordering delays testing of parts.
- ❖ Possible issues with both the filter and amplifier segments of the circuit with the need for adjustment. Necessary adjustment being researched and will hopefully be finalized by Wednesday.

✓ **Individual contributions**

<b><u>NAME</u></b>	<b><u>Individual Contributions</u></b>	<b><u>Hours this week</u></b>	<b><u>HOURS cumulative</u></b>
Honghao Liu	TI Launchpad Programming, Group Meeting	5	30
Miguel Mondragon	PCB Design Work, Group Meeting	5	30
Zechariah Pettit	Physical Circuit Testing Work, Group Meeting, Website Design Work	5	30

✓ **Comments and extended discussion**

None.

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

- ❖ Meet with Dr. Bigelow at 9AM on Wednesday.
- ❖ Miguel Mondragon will be finishing up PCB test board for his low pass filter op-amp with some slight adjustments.
- ❖ Zechariah Pettit will be physically testing his power amplifier circuit designs and working on a PCB test board for an alternate amplifier.
- ❖ Honghao Liu is continuing to work on the necessary programmable segment for the TI Launchpad.

✓ **Summary of weekly advisor meeting (if applicable/optional)**