

EE 492 WEEKLY REPORT 6

Date: 10/7/2016

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)

TI Launchpad programming continues. PCB design work submitted to part shop for recommendations and spot-checking. Meeting with Dr. Bigelow cancelled due to group member conflict.

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

- ❖ Tom was able to receive semi-acceptable results. He was able to successfully create properly phase modulated signals on a larger timescale than desired. After a small discussion of proper oscilloscope practices it is presumable that he will be able to replicate this on a smaller time scale.
- ❖ Miguel and Zech perform additional adjustments to PCB design as per the recommendation of the part shop.
- ❖ Additional adjustments to parts order was performed in line with the recommendations of the part shop.

✓ Pending issues (if applicable)

- ❖ Testing parameters still being discussed with Dr. Bigelow.
- ❖ Reworking of design documentation and presentation slides needs to begin soon.

✓ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Honghao Liu	TI Launchpad Programming, Group Meeting	5	21
Miguel Mondragon	Analog Filter Design Work, Group Meeting, Administrative Tasks	4	25
Zechariah Pettit	Amplifier Circuit Design Work, Group Meeting, Website Design Work	4	20

✓ **Comments and extended discussion**

None.

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

- ❖ Meet with Dr. Bigelow 10/13/2016.
- ❖ Zech will performing additional research in case of failure of amplifier PCB.
- ❖ Miguel will be working on PCB work, parts orders, and documentation.
- ❖ Tom will be working on programming of TI Launchpad.