

EE 491 WEEKLY REPORT 1

Date: 2/1/2016

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)

Had first meeting with Dr. Bigelow to discuss project and determine future planning. Group members performed individual research on aspects of the project to determine areas of personal interest. Team meeting to determine individually assigned areas of work for the project.

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

- ❖ Group met with Dr. Bigelow at 9AM on Wednesday had in depth discussion on specifics of the project.
- ❖ Arranged and met at 2:30PM on Sunday for Team Meeting and decided to maintain time as official Team Meeting time. Divvied out specific roles within the project for individuals to work on.
- ❖ All group members spent the week researching the individual aspects of the project to determine individual knowledge and level of interest.

✓ Pending issues (if applicable)

- ❖ None
- ❖ X
- ❖ X

✓ **Individual contributions**

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Honghao Liu	1 st Professor Meeting, Team Meeting, Individual Assignment Research	4	4
Miguel Mondragon	1 st Professor Meeting, Team Meeting, Individual Assignment Research	4	5
Zechariah Pettit	1 st Professor Meeting, Team Meeting, Individual Assignment Research	4	4

✓ **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 working on designing a number of low pass filters as well as researching operational amplifiers to use for testing, looking particularly at high frequency input signals.
- ❖ Zechariah Pettit is doing further research in power amplifiers and additional amplifier circuits for the output signal of the project.
- ❖ Honghao Liu is researching methods for splitting and aligning the initial input signal of the project as per outlined by Dr. Bigelow.

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

Meeting was about an hour long. Introduction were done and team members were briefed on the history of the project as well as the overall scope of the final desired design. We were provided via email with further documentation from a previous project year and instructed on the input signals we received as well as the desired output signals.