

Date: November 2, 2014

<b>Group Number and Name</b>	<b>DEC14-06 TMS: Transcranial Magnetic Simulation</b>
<b>Client/Advisor</b>	<b>Mani Mina</b>
<b>Attendees/Role</b>	<b>Josh Abbott- Leader Spencer Ulven- Communicator Zhongheng Wang- Idea Master Kaiyue Zheng- Webmaster Nikhil Reddy Purma – Idea Generator</b>

## Past week accomplishments

What was done, who did it, and when it was done

- ❖ A – Josh – Worked on final design of PCB board by condensing it into one board instead of two also tested relays to see if they worked with 200VDC. Found out that the gate drivers with trigger by the potential difference between Vcc and Vee. Met with group to work on presentation for George and had presentation with George on Friday. Set up circuit to test the gate drivers and found that they worked with medium scale voltage. Tested large voltage on drivers and worked also.
- ❖ B – Spencer – Wrote the weekly report. Worked with josh on the gate drivers when available and presentation slides.
- ❖ C – Kaiyue – Helped group with drivers
- ❖ D – Zhongheng – Continued working with Nick finishing up the enclosure.
- ❖ E – Nick –Submitted final casing design to Boyd lab and waiting for casing to integrate buttons

## Plan for coming week

What to do, who, and when should it be done

- ❖ A – Continue to work on gate driver problem with the large potential difference.

- ❖ B – Have Spencer write the weekly report and continue working with gate drivers and relays
- ❖ C – Have Josh and work with the gate drivers and submit final PCB design
- ❖ D – Have Kaiyue work on gate drivers and relays
- ❖ E- Have Wang and Nick integrate everything we need on the casing when group obtains it.

### Pending Issues

- ❖ A –Finding a way to keep the potential voltage difference of  $V_{cc}$  and  $V_{ee}$  under 30 volts
- ❖ B – Casing could not be having few minor problems when received.

### Individual Contributions

- ❖ A- Josh- Researched more into gate drivers fully understood how they worked and tested them thoroughly and finished PCB design onto one board.
- ❖ B- Kaiyue- Updated the website, helped work with the gate drivers.
- ❖ C- Spencer – Wrote the Weekly Report, helped work with understanding gate drivers and how to keep the potential under 30V
- ❖ D- Zhongheng- Worked on casing with Nick.
- ❖ E – Nick – Worked on casing with Wang.

## Individual hourly Contributions

<u>NAME</u>	<u>Hours this week</u>	<u>HOURS Cumulative</u>
Josh	25	115
Spencer	9	84
Kaiyue	8	54
Zhongheng	5	47
Nick	6	43

Comments and extended discussions: