

Date: October 26, 2014

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

Past week accomplishments

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

- ❖ A – Josh – Researched more into MOSFETS and IGBTs. Created a bi-phasic pulse but blew the gate drivers afterwards due to accidental touching of IGBTs so we did not get a good sample of output. Hooked up entire circuit with our solid state relays to test discharging of capacitors and worked with positive but not negative.
- ❖ B – Spencer – Wrote the weekly report. Worked with Josh to obtain our biphasic pulse and relays
- ❖ C – Kaiyue – Helped group with the relays and updated website.
- ❖ D – Zhongheng – Continued working with Nick finishing up the enclosure.
- ❖ E – Nick –Worked with Wang with enclosure to finalize any extra materials needed for enclosure.

Plan for coming week

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

- ❖ A – Fix gate driver and solid state relay issues with high voltage and negative side of circuit.
- ❖ B – Have Spencer write the weekly report and help work on the logic of

circuit.

- ❖ C – Have Josh work finalizing the PCB board and the logic of circuit.
- ❖ D – Have Kaiyue work on logic of the circuit.
- ❖ E- Have Wang and Nick integrate everything we need on the casing when group obtains it.

Pending Issues

- ❖ A –Destroying logic components due to high difference of voltage applied to different gates
- ❖ B – Casing could not be have few minor problems when received.

Individual Contributions

- ❖ A- Josh- Researched more into MOSFETS and IGBTs, started to integrate the relays, and IGBTs to discharge capacitors and to create biphasic.
- ❖ B- Kaiyue- Updated the website, helped work with the relays.
- ❖ C- Spencer – Wrote the Weekly Report, helped work with obtaining bi-phasic pulse and using the relays for discharging.
- ❖ 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	13	90
Spencer	10	75
Kaiyue	8	46
Zhongheng	5	42
Nick	6	37

Comments and extended discussions: