Fast, Compact, High Strength Magnetic Pulse Generator

EE 492 Weekly Report

May 15-30

Week 9

Advisors: Mani Mina, John Pritchard, Robert Bouda Client: High Speed Systems Engineering Lab

Members: Team Leader – Adam Kaas

Team Webmaster – Gregory Fontana, Meiyong Himmtann

Team Communication Leader - Brittany Duffy

Team Key Concept Holder – Megan Sharp, Brandon Dixon

Team Commissioner - Alain Ndoutoume

Website: http://may1530.ece.iastate.edu

Weekly Summary

This week, our team began our final document and PowerPoint presentation. It is important that our coils be created to the best of our ability; therefore, we created 10 new coils of good quality and measured their inductances. We were also able to speak with our advisor and client this week in order to get a better understanding of the interferometer setup. We were able to obtain Vs graphs to see if we are hitting the appropriate current to reach 500 gauss.

Meeting Notes

3/9 Brittany & Adam Meeting

Duration: 1 hour **Members Present:** Brittany, Adam

Purpose and Goals: To figure out who is responsible for what in the Final Document and create

the outline.

Achievements: All purposes and goals were met.

3/13 Coil Making with John and Testing

Duration: 3 hours **Members Present:** Adam, Greg, Meiyong + Advisor

Purpose and Goals: Make 10 coils, measure their inductance to get an average and make sure

we are making coils correctly. Test interferometer setup.

Achievements: Gained understanding of how interferometer setup is used. Obtained statistically relevant data regarding our coil making process.

Pending Issues

N/A

Plans for Next Week

Adam: Spring Break
Greg: Spring Break
Meiyong: Spring Break
Brittany: Spring Break
Megan: Spring Break

Brandon: Spring Break

Alain: Work on final document

Individual Contributions This Week

Adam: 3/9 Meeting to Delegate Final Document (1hr), 3/13 Coil Making with John and Testing

(3 hrs), Team Meeting (1 hr)

Greg: 3/13 Coil Making with John and Testing (2.25 hrs)

Meiyong: Met with Alain to call Advanced Circuit (0.5hr), 3/13 Coil Making with John and

Testing (2 hrs), Team Meeting (1 hr)

Brittany: 3/9 Meeting to Delegate Final Document (1hr)

Megan: 3/13 Coil Making with John and Testing (1/2 hrs), Team Meeting (1 hr)

Brandon: Team Meeting (1 hr), Work on User Guide (2 hours), Update Parts List (.5 hr) **Alain:** Meeting with Meiyong on PCB, called Advanced Circuit (0.5hr), weekly meeting (1hr),

Researched on PCB fabrication and assembly and step to build a pcb, updated research results

on senior design folder in google drive (1.5hrs)

Total Contributions for Project (This Week / Total for Semester)

Adam: 5 hrs / 23.75 hrs Greg: 2.25hrs /17.5 hrs Meiyong: 3.5 hrs/ 23.25 hrs Brittany: 1 hr / 18.5 hrs

Megan: 1.5 hrs / 18.75 hrs Brandon: 3.5 hrs / 34 hrs Alain: 3 hrs/ 19.25 hrs