

EE 491 Weekly Report MAY1612 Week 1 (9/8/15-9/15/15)

Advisors: Mani Mina, John Pritchard

Client: Minnetronix

Members (roles): Brandon McDonnell, Group Lead; Justin Long, Web Master
Timothy Dee, Key Concepts; Corey Wright, Communications

Project Title: Remotely Connected Electric Field Generator for Particle Separation in a Fluid

Weekly Summary

This week we meet with our contacts from Minnetronix via a skype call last Thursday, the 10th. This was the main goal for the week and we learned about some of the requirements and the materials that we would have access to during the project. Since this is the first meeting with our company contact we learned what would be expected for us more than anything. We also meet briefly after class on the 8th with Mr. Mina and discussed shortly how to approach the start of the project.

Meeting notes:

At 5:00 pm on Thursday the 10th a meeting was held between our group here at Iowa State and John Pritchard and Adam Han at Minnetronix in St. Paul Minnesota. The communication was done through a skype call. After a short round of introductions by both parties a question and answer session was held mainly on the requirements and expectations for the product. Mr. Pritchard and Mr. Han laid out what they had already done on the project and then instructed us on how to do something similar. No stiff plans were made but the groups decided on to look into all of the possible ways to do our project. Among the things discussed were: size of device, device communication systems, uses, and layout. All of this was finished out with a plan to reconvene in two weeks with a better understanding of how we would go about the project and the requirement of a block diagram to be presented.

9/10 Group Meeting with John Pritchard

Duration: 1 hour **Members Present:** All

Purpose and Goals:

Establish contact with company advisor and started to learn the expectations and a possible route to building our project.

Achievements:

As a group, we defined exactly what was expected of us over the course of the project:
We also received answers to our questions of where, when, and how we would complete our work.....

Pending issues

1. We now need to start doing research into how exactly we can accomplish our goals and through what means
2. We need to have a block diagram ready by the time we meet with John Pritchard again on the 24th
3. We need to learn what sort of products are available to be used, particularly the function generator part of our circuit
4. It would be good to start setting out what systems we want to use with what parts of the project (coding languages, programs, etc.)

Plans for next week

Describe who will do what

1. All: brainstorm ideas on how to build our circuit and look into what products could fit our needs
2. John: attend the meeting and give specs to the team
3. Brandon: Facilitate further meetings with John and Prof. Mina

Individual Contributions (this week)

Brandon McDonnell	(1hr)
Justin Long	(1hr)
Tim Dee	(1hr)
Corey Wright	(1.5hr)

Total contributions for the project

Brandon McDonnell	(2hr)
Justin Long	(1.5hr)
Tim Dee	(1.5hr)
Corey Wright	(2.5hr)