

EE 491 WEEKLY REPORT 5

Date: 2/22/2016

Group: DEC1605

Project title: Kepros Physical Therapy & Performance, PC

Client: Ted Kepros

General Advisor: Suresh Kothari

Technical Advisor: Jeremias Saucedo

Team Members/Roles:

Anthony Branson: Team Leader

Jiahui Quan : Team Webmaster

Samuel Eue : Key Concept Holder

Benjamin Engh : Team Communication Leader

Weekly Summary

This week, we drove up to Cedar Rapids to meet with Kepros. He clarified many of our questions about the project and explained some physical therapy aspects to understand how to better implement the project. This meeting helped us narrow down our specifications for our project plan. Also it gave us a an overview of how the device should work, which gave us some ideas of how to achieve those goals.

Past week accomplishments

- ❖ We all drove up to Cedar Rapids on Wednesday February 17th to meet with Ted. We left around 5:30 and didn't get back until 11:30.
- ❖ Benjamin wrote the project plan on Saturday the 20th and Sunday the 21st.
- ❖ Benjamin wrote the weekly report on Monday the 22nd.

Pending issues

❖ No real issues right now.

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Ben	Project plan doc Weekly report doc	10	22.5
Jiahui	Set up the website	7	19
Anthony	Reviewed project documentation, facilitated communication	5	16
Samuel	Worked on getting the android code into a test environment	7	15

Comments and extended discussion

During this week's class time, we agreed that we felt a little behind where we would like to be because it took longer than expected to meet with our advisors and client. After meeting with Ted, however, we feel caught up and we are much more confident in our understanding of the project.

Plan for coming week

- ❖ We need to get the program to communicate with the hardware. Check to see how exactly the how the device works and what the signals we collected looks like.
- ❖ We should look into additional fabric and shirts we can use.
- ❖ Begin ordering the hardware components we agreed upon with Jeremias.

Summary of weekly advisor meeting

We met with Kepros this week inside of his gym up in Cedar Rapids. There, we were able to formally introduce ourselves and discuss the project in further detail. Kepros even had visual models and videos that detailed the movements and areas of the body he was interested in recording. He explained how the EMGs functioned and showed us two other wearables that tried to help people with their posture. One was a shirt that was weighted down in certain areas and the other was a waistband that was only able to detect some changes in posture. Finally, we signed the NDA forms and discussed the hardware changes we decided on with Jeremias last week.