

EE 491 WEEKLY REPORT 12

Date: 4/18/2016

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

We met again this week to further our improvements on the hardware and software of the project. We are preparing to meet with Ted next week and to give our final presentation of the semester.

Past week accomplishments

- April 12th - We all met to work on the software and discuss how we were going to sew the new vest.
 - The work is split such that Samuel and Jiahui focus on the hardware and vest while Benjamin and Anthony work on the software. Of course, this work overlaps as we discuss and answer each other's questions.
- April 14th - Samuel notified the group that there were problems with the website and Jiahui fixed the issue on the following day, the 15th.

- April 17th - Ted gave us the go-ahead to implement our design for the vest on the posture shirt he gave us earlier in the semester.

Pending issues

_____ Since we haven't met with Kothari since early this semester, we are trying to schedule a meeting with him so that he knows what each of us have been working on. Also, with other classes assigning large project at the end of the semester, we are finding less time to meet and work as a group. We also had a problem publishing the website this week. While this seems to be fixed, none of us had enough knowledge about creating websites to help Jiahui.

Plans to solve issues

We're confident that we will be able to meet with Kothari, but we are still deciding how we want to present all of our work to him. We have two similar Arduinos, so Benjamin and Anthony can test their code and save their work to the GitHub repository. Jiahui will reupload the assignments this week after we make any necessary changes, which gives us enough time to email for help if issues arise.

Individual contributions

<u>NAME</u>	<u>Individual Contributions</u>	<u>Hours this week</u>	<u>HOURS cumulative</u>
Ben	Weekly report Arduino Code	5	53
Jiahui	Website Design Assemble Hardware	8	48
Anthony	Coordinating Team Arduino Code	5	44

Samuel	Assemble Hardware Arduino Code	5	40
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Comments and extended discussion

This week, we ported over parts of the past group's code to our Arduino and modified the code so that it gave us necessary information from the gyroscopes and EMGs. Next, we will get this information to be saved in a file for a set amount of time. We also decided to use the back support shirt that Ted supplied us with as the material for our vest. As he has the most experience, Samuel is in charge of sewing the vest together.

Plan for coming week

- ❖ Save data from the Arduino onto the Arduino's SSD.
- ❖ Make any necessary changes after seeing the sewn together vest.
- ❖ Finalize documents and publish them on the website.
- ❖ Prepare demo for our meeting with Ted.

Weekly advisor meeting status

We talked with Ted over the messaging app Slack and showed him a video of the software and a diagram for our changes that we were going to make to the posture shirt. He replied confirming that we can use the shirt and that the mockup looked great.