

DEC15-04

Senior Design 491 - Weekly Report - DEC15-04 Fall 2015 Week 11/30 - 12/11 (Month of December)

Advisor: Suraj Kothari
Project: Future Wearables
Client: Ted Krepos (*"Krepos Physical Therapy and Performance"*)
Ensoft - Jeremías Saucedo
Members: Aaron Reyes - Team Leader
Nick Plutt - Webmaster
William Park - Communication Leader
Josh Cline - Key Concept Holder #1
Nick Gonner - Key Concept Holder #2

Monthly Recap:

For this last month, we had our final project meeting with our clients. Ted and Jeremías were both satisfied with the outcome of what was done with this project. They told us that this project was a stepping stone and that it will be further pushed to another senior design group to continue in what we did.

For this month, we finalized all of the components of the software application as well as the hardware of the wearable devices. It was mainly focused on cleaning up and writing our documentation for the code as well as writing our final documentation and creating our poster for our presentations.

Meeting Overview:

December 3 2015 - **Meeting-31**

Duration: 2.0 Hours

Attendance - 31

William Park	Present
Nick Plutt	Present
Aaron Reyes	Present
Josh Cline	Present
Nick Gonner	Present

This meeting was our final meeting with Jeremías, Ted and Carey. We gave them an informal presentation as well a demo of our final product. After this meeting was concluded, we talked with Jeremias and Ted about any last minute changes they would like before the semester was over. We also were told to add to our documentation a section of things to do for the future (for future senior design groups).

We were also told to comment and document all of our code and hardware schematics so that the transitional process will be smooth for the next group that will be taking on our project.

At the time of this meeting, we sewed together the “final” compression shirt that we would be using for our project. We decided to not use the back poster compression shirt that Ted gave us because we agreed as a team that a compression shirt is not the best idea to collect data even with all the modifications we made to it. All of this is documented in our final documentation listed on the website.

Accomplishments this month:

1. Last Conductive shirt was sewed together.
2. Graphing and Data for application was approved by client
3. Hardware and prototype shirt was approved by client.
4. Poster and Documentation was completed
5. Parsing was cleaned and changed from raw bluetooth data to byte arrays

Pending Issues:

1. Although the semester is over, we will still be working on it throughout dead week and finals week.
2. The software application needs finishing touches to include exporting the database to a CSV file.
2. Hardware needs to be clamped together and organized in a presentable way.
3. PCB and Battery solution need to be implemented and included for the final presentation
4. Prepare for presentations and tests!

Planning:

- i. Cleaning up the hardware so it's more presentable for presentations
- ii. Packaging the software and hardware components to hand off to Jeremias.
- iii. Last minute changes to the application for CSV exporting
- iv. Documentation and Code Comments need to be added and setup for the next senior design group.

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Individual Contributions

Aaron : -- (9 hr)

- i. meetings
- ii. Poster
- iii. Documentation
- iv. Battery Solution

William: -- (11 hr)

- i. Website Organization
- ii. Meetings
- iii. Documentation
- iv. Poster
- v. CSV Export

Josh: -- (29 hr)

- i. Meetings
- ii. Cleaning up the application
- iii. CSV Export
- iv. Documentation
- v. Poster
- vi. Sewing
- vii. Byte Parsing
- viii. Hardware and Software working together
- ix. SQLite database
- x. Graphing

Nick P. -- (10 hrs)

- i. Meetings
- ii. Documentation
- iii. Poster
- iv. Android Graphing from Database

Nick G. -- (25 hr)

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- i. Meeting
- ii. Poster
- iii. Documentation
- iv. Data Processing
- v. Sewing IMU pouches and Velcro
- vi. Testing hardware and software components together

Total Contribution for the Project:

Aaron Reyes (93.7 hrs)

William Park (108 hrs)

Josh Cline (148.7 hrs)

Nick Plutt (108 hrs)

Nick Gonner(128.1 hrs)