

Biweekly Report

SD-May-24-16

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Agenda:

Introductions - All same people, not needed

Review of Design:

Our initial design is a sock insole that contains embedded temperature sensors, which are then connected to wires that will run up to an anklet, which contains our power supply and Raspberry Pi Pico. The pico is used to read our analog values from the sensors and convert them to digital, taking the digital values and sending them over Bluetooth to our phone application.

Possible changes or improvements:

- Discuss UI changes
- Discuss foot interface

Objectives and requirements for 492

Schedule and milestones for the project

- When we need to send out a prototype by

Discuss what is going well and what needs to be changed

Q&A

Notes/Summary:

In our meeting with the client we discussed the possibility of making our design wearable for amputees as well as those with paralysis. Our client also brought up the idea of trying to partner with Dr. Scholls for our insoles.

We did not make any new decisions while in this meeting but talked about multiple possibilities for this semester.

We currently have our design implemented on a breadboard, working off a power supply and communicating to our phone application for both Android and iOS.

Our next steps are:

- 1) Building out our Android UI
- 2) Getting all of our components soldered together
- 3) Getting our system entirely off the breadboard and getting it into a wearable device (Insole and anklet)
- 4) Test our equipment in varying temperatures to make sure it is reading in the correct data
- 5) Test the equipment to ensure it is comfortable to wear and does not interfere with regular movement function or comfort.