

Biweekly Report

SD-May-24-16

Dates: Ending - 2/10/2024

Evan Rosonke, Ethan Houts, Thomas Kivlahan, CJ Reitz, Mensanh Namessi
02/10/2024

Project title: Temperature Sensors for Veterans with Paralysis

Client: Bae Systems/Adaptive Adventures

Advisor: Santosh Pandey

Previous Week Accomplishments:

Over the past two weeks, we have met with our project mentors at BAE system to discuss the progress we have made since going on winter break. We have also discussed our upcoming plans and goals for our project.

Things we have worked on:

- We have gotten our sensors array off the breadboard and working off battery power - Evan
 - Can read temperatures into phone application within 2 degrees of accuracy.
- Put together a parts list and ordered - Evan
- IOS Application functionality - Ethan Houts
 - Shows temperatures from temperature sensors
 - Trends previous sensors data over the last 30 seconds to see rapid change
 - Push notification alerts implemented
 - Re-organization of code to make implementing multiple sensor devices easier
- Found a couple of options for connectors - CJ
- Found a couple of options for housings - Thomas

Pending Issues:

- Need to package our sensor array into the insole, allowing the user to wear the sensor array on their foot
- Need to come up with packaging for the electronics, such as the Raspberry Pi and battery pack.

- We need to develop a waterproof connector for our wires to run from the sensors to the electronic package, allowing our electronic packages to be sealed from any water.

Plans For Upcoming Weeks:

Software:

- UI Improvements
- Estimation calculation for how long until the temperature will take to get to dangerous levels

Hardware:

- Get parts ordered
- getting a prototype built. - pending shipping times

Hours Spent working (not including advisor meetings)

Member	Estimated Time (hours)
Evan R.	7
Ethan H.	15
CJ R.	1
Thomas K.	1
Mensanh N.	0?