

Team Name: sdmay24-16

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Report Period: Oct 9-Oct 22

Summary of Progress in this Period

During the past few weeks, we have been able to complete our first design iteration, we have ordered our parts and received them. We are in the process of implementing our design. We are starting off by creating a one sensor system that will communicate through a Raspberry Pi Pico to a phone application. We are working on using a few types of temp sensors to see which one will work the best. We have also started working on some aesthetic aspect of the project such as the enclosure that will attach to the ankle. We have been able to read in data from the temp sensor on the Pico. We have also been able to make Bluetooth communication work and have been able to get the data displaying on our phone application.

Pending Issues

- Have not yet decided on a temp sensor but have picked a few we are going to run with
 - Have to figure out how to get one of our temp sensors in the voltage range of the Pico ADC.
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Plans for Upcoming Reporting Period

- Get a one sensor system functioning
 - Do various tests with the one sensor system such as: Controlled environment testing in various weather conditions, testing on a person, making sure the power lasts long enough, calibration of sensors, etc.
 - Start implementing multiple sensor system.
 - Pick specific sensor that is best for use based on our tests and one sensor systems.
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