

sdmay23-08: PTSD detection device

Week 1 Report

September 23 - September 30

Team MembersSteven Trinco — *Hardware design and Discord Admin*Jon Pixler — *Hardware-software bridge, embedded systems leader*Maisy Millage — *Writing and upper-level software*Comlan Bocovo — *Client Interaction - Software Design and Time Management*Cosette Thompson — *Client Interaction, Hardware Debugging, Hardware-software bridge*Carver Bartz — *Software Design*Sam Brang — *Team Organization and Electrical Design*

Summary of Progress this Report

During this initial period, our group focused on communication, initial research, and subsequent brainstorming. We set up recurring meetings with our client from 2-3 PM on Mondays starting on September 12th. We were also able to meet with our advising professor and coordinate a regular bi-weekly meeting time with him from 10:00 - 10:30 AM on Wednesdays. For our initial meeting, we went over expectations of a general process flow for the project this semester and communicated information from our first meeting with BAE. In addition to this, we created a brainstorming document of all our initial ideas of what the product should be and how it might work. During our second meeting with BAE systems, we went over our brainstorming document and discussed some of our group's initial design ideas. Additionally, we discussed the logistics of the weekly virtual VetDogs meetings. Understanding that the veterans are taking time out of their week to be available for many different students around the world, we went over some potential questions with BAE Systems to see if they could help us narrow down the most important ones to ask for the first VetDog's meeting on Wednesday. Four of our team's members were able to attend the VetDog's meeting and asked the questions we had decided on to better understand the user needs of the veterans we are designing for. This assisted us in completing our deliverable for the week which was a design document on user needs.

Pending Issues

- Knowing exactly how to differentiate between a PTSD event versus regular physical activity or other internal events (such as panic attack, physical activity, etc.).
 - Determining benefits and limits of bluetooth for transmitting data from the device located on the veteran to the device located on the dog. (We asked the question of how far the veterans are from their service dog on any given day. They responded by saying that they are never far unless they are at the gym or at home, which are two places they usually feel safe)
 - Sensors for the vitals (Buy or make?)
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Plans for Upcoming Reporting Period

- Meeting with client on Monday from 2-3 PM
- Meet with advisor on Wednesday from 10:00 - 10:30 PM
- Team meeting
- Project requirement design document deliverable
- Begin preparing lightning talk presentation

Individual Contributions

Team Member	Contribution	Weekly Hours	Total Hours
Steven Trinco	Client meetings, Veteran meeting, User needs document, weekly report, time tracking	4	
Jon Pixler	Client meeting, User needs document, weekly report	4	
Maisy Millage	Client meetings, User needs document, weekly report	4	0
Comlan Bocovo	Client meetings, Veteran meeting, User needs document, weekly report	4	
Cosette Thompson	Client meetings, User needs document, weekly report, interaction with client and advisor	4	
Carver Bartz	Client meetings, User needs document, weekly report	4	0
Sam Brang	Client meetings, Veteran meeting, User needs document, Weekly report, note taking	4	

Gitlab Activity SummaryNothing to report.
