

## **EE/CprE/SE 492 BI-WEEKLY REPORT 4**

**3/25/2023 to 4/07/2023**

**Group number:** sdmay23-08

**Project title:** PTSD Detection Device

**Client:** America's Vet Dogs / BAE

**Advisor:** Mohammed Selim

### **Team Members/Roles:**

Steven Trinco - *Hardware Design and Discord Admin*

Jon Pixler - *Hardware and Embedded Systems Lead*

Sam Brang - *Hardware Design*

Comlan Bocovo - *Client Interaction, Software Design, and Time Management*

Maisy Millage - *Software Design*

Carver Bartz - *Software Design*

### **Weekly Summary:**

In the past few weeks, we were able to have all the components of the enclosure printed out and fitted together. The components fit but did not functionally work. Additionally, we have had our new watch delivered and is ready for testing. Bluetooth has been further debugged, but is still nonfunctional. We will be getting our power supply and other materials to better attach the enclosure to the dog vest.

### **Past Week Accomplishments:**

- Had enclosure printed and functionally tested
- Ordered power supply and other materials to fix device to dog vest
- Continued work on the Bluetooth

### **Pending Issues:**

- Need to revise enclosure model for better functionality and reprint
- Bluetooth communication needs to be finished

Name	Individual Contributions	Hours This Week	Hours Cumulative
Jonathan Pixler	Researched, ordered, and picked up a new watch. Helped move Bluetooth communication forward. Ready for hardware prototype testing when Bluetooth is ready on software side.	5	26
Steven Trinco	Had enclosure parts printed. Tested functionality of enclosure. Began creating new prototype.	4	14.5
Comlan Bocovo	Researched on Bluetooth permission for android devices.	2	10
Maisy Millage	UI work	2	11
Carver Bartz	Continued work on the Bluetooth connection	4	23
Sam Brang	Ordered parts and helped look over the enclosure design that was printed	2	10

### Plans For the Upcoming Weeks:

- Bluetooth will be implemented. Hardware communication between app and dog device will be completed.
- Create a new prototype for the enclosure and have it printed and tested.
- Test power supply on device

### Summary of Weekly Advisor Meetings:

We will begin having more frequent meetings by meeting every week rather than every other week. Additionally talked about how we will be preparing for the presentation coming up and pipelining critical tasks that need to be completed in the next upcoming weeks.