

Team Weekly Report

Team: The Gauntlet

Week: 5

Members: Kris Gavvala, David Johnson, Aaron Martinez, Brint Nielson, Will Tatum, Grant Turner

Status Report

The team has made good progress on integrating the new hardware with the software. As of now, the glove can both left and right click. The new flex sensors have been added and put into the glove. There has been progress on getting screen zoom to work along with getting the buttons on the glove to be functional. The challenges last week came from trying to get the left control key to work as it would increase the volume rather than press left control. This was hopefully overcome and will be part of the next report. The team is also working on a different type of mouse movement along with getting mouse scrolling to work. The goals for this week are to try and finish scrolling and the new movement method to get ready for user testing. The current plan for the glove is to now solder the flex sensors and other sensors along with gluing the glove's fabric closed once everything is ready.

Current Status

1. What did the team work on this past week?

Task	Task Lead	Status	Notes
Built button pads	Grant	Complete	
Built Arduino based encoder	Grant	Complete	Can possibly add more inputs and outputs
Soldering and inputting flex sensors in glove	Aaron	In progress	Have 2 more flex sensors to add
Ctrl modifiers for input	David	Complete	
Mouse integration movement refinement	Brint	In progress	Need to overcome a lot of sensor noise
Driver Development	Brint	In progress	
Mouse movement using translation	Will	In progress	Same issue as Brint with the mouse integration movement
Zoom Gesture	David	In progress	Need to convert from keyboard event to glove event

2. What feedback has the team received?

From Whom	Feedback	Next Steps
Ritchey	Get a functional prototype for a live demo	Get everything sealed
Ritchey	Keep up to date on jira	Ensure we manage our Jira tasks

3. Are any resources needed? If so, what?

So far everything we could see us needing we have ordered for ourselves.

Plans for Next Week

What are your plans for this next week?

Task	Task Lead	Notes
Incorporate actual encoders to save space for buttons	Grant	
Finish adding flex sensors	Aaron	
Add functions and determine thresholds for fingers	Aaron	
Continue driver development	Brint	
Continue making mouse integration movement work	Brint	
Mouse movement using translation continuation	Will	
Convert events on keyboard to glove events	David	This includes zoom and mouse disablement