

Daily Log

Detail for each day about what you researched, coded, debug, designed, created, etc. Informal style is OK.

Monday September 23

Decided to temporarily test my code with LEDs instead of servos since my partner is not ready yet

Acquired said LEDs from robo lab

Began refreshing myself on how Arduinos work

Tuesday September 24

Continued relearning how to use Arduinos

Looked into a second mallet design (the first being gravity powered mallets) featuring zip-tying the mallet onto the servo and utilizing its rotation

Thursday September 26

Successfully turned on LED with the Arduino

Began working on coordinating LED with MIDI data file (eg. the LED flashes whenever a note is being played)

Timeline

Date	Goal	Met
September 16	Find fourth sample song and transfer data file to Processing IDE	yes; created fourth sample song and transferred data file to Processing IDE
September 23	Find and test my code on an actual Arduino board	partially met; part of my code successfully uploads to the board but I do not know if it is doing what it is supposed to be doing
September 30	See if robot can successfully play a note	not met; my partner did not have a robot ready for me to test
October 7	See if robot can successfully play multiple notes	
October 15	See if robot can successfully play a note	

Reflection

In narrative style, talk about your work this week. Successes, failures, changes to timeline, goals. This should also include concrete data, e.g. snippets of code, screenshots, output, analysis, graphs, etc.

Overall, I am satisfied with my accomplishments this week. I successfully lit my first LED, as shown in the photo below. At first I thought this would be a major setback being at different points in our project and not being able to test our respective parts of the project with the other. Fortunately I was able to find a way to continue my own work using LEDs and "stall" in a way until my partner can finish his first prototype. I will also have to rearrange deadlines to account for this LED testing.

I am also glad that we now have multiple possibilities in how we choose to implement our mallet system. Ideally, we would be able to construct both options and see which performs better.

