Weekly report

EE 491 DEC1503

April 13, 2015

Modular Audio Mixer

Advisor: Josh Bertram

Client: Jay Becker

Clayton Hawken: Team Leader

Debbie Baeder: Team Communication Leader

Chad Stobbie: Team Concept Holder

Brian West: Team Webmaster

## Weekly Summary

The components have been on order, and were delivered at the end of the week, and the next step is to fabricate the PCB. The enclosure design has been resized and heightened. The enclosure fabrication source is still under consideration. The choice is between buying acrylic sheets from Amazon, and then fabricating through Boyd Lab on campus, or completely out-sourcing through Protocase.com. We will continue to develop programming the Raspberry Pi within these next few weeks.

## Team/Client Meeting Notes

* **Duration:**  n/a  **Members Present:** n/a
* **Purpose and Goals:** No physical meeting took place, but Jay was updated through email of the previous week’s developments, and our new enclosure design intentions.

## Team/Advisor Meeting Notes

* **Duration:**  15 minutes **Members Present:** Chad, Brian, and Debbie.
* **Purpose and Goals:**Josh had a conflict, and did not have time to meet with us. A smaller meeting took place in which the team discussed what next week’s plans are, and opinions on the new enclosure material.
* **Achievements:**
  + *PCB:* Once the board arrives, the team can start fabricating the components onto the board, and assure quality.
  + *Enclosure:*3-D printing has proven to be very expensive for the amount of material needed within the surface area of the enclosure. We have decided to investigate translucent acrylic sheets, and have technicians from Boyd Lab bend and adhere the sides together. The translucent material will actually allow an LED strip to illuminate the border of the user interface with Neopixel lights.

## Pending Issues

* *Choose either Acrylic material or Protocase.com for fabrication.*
* *Wait for the PCB to be delivered to the shop.*

## Plans for Next Week

Brian: Work on programming. Configure our Raspberry Pi to the proper settings. Meet with Clay for help with programming.

Debbie: Consider the cost and time differences between Protocase.com and Boyd Lab. Order fabrication as soon as possible.

Chad: Practice soldering, while awaiting component delivery.

Clay: --

## Individual Contributions

Clay: ---

Debbie: Adjusted the Inventor files to allow for more room within the enclosure. Went to get the 3D printing quote from Boyd Lab. Research fabrication with acrylic sheets. Documentation.

Brian: Worked with more Raspberry Pi code - focused on configurations. Research on necessary functions for programming.

Chad: Attended and actively participated in the weekly meetings. Gave opinions on any lingering design questions.

# Weekly hours for the project:

|  |  |
| --- | --- |
| Name | Hours |
| Clay Hawken |  |
| Debbie Baeder | 7 |
| Brian West | 4 |
| Chad Stobbie | 2 |

# 

# total hours for the project: 154

|  |  |
| --- | --- |
| Name | Hours |
| Clay Hawken | 32 |
| Debbie Baeder | 40 |
| Brian West | 29.5 |
| Chad Stobbie | 52.5 |