Weekly report

EE 491 DEC1503

March 30, 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

Returning from spring break. Organization of pin mapping, circuit simulation, and programming research.

## Team/Client Meeting Notes

* **Duration:**  45 mins  **Members Present:** Clay, Chad, and Debbie
* **Purpose and Goals:** Refresh and review our accomplishment and tasks after just coming off of spring break.
* **Achievements:** 
  + *Meeting frequency:* We changed our weekly meetings to biweekly until further notice.
  + *Update Jay:* We are done with the prototype design and we are finalizing the component selection.We reviewed the rest of the semester with him and walked through the Design document together.
  + *Enclosure:*The drawing was missing a power cable port, and we needed to know how much 3D printing is vs Protocase.com might cost. We chose to use a slight amount of the flexible material in 3D printing, and then potentially use Protocase.com for the second mixer.
  + *Relay Design:* We changed the outline from 5 relays to just one, considering the simplicity of a voltage divider for volume control. Now the Raspberry Pi has more GPIO availability.

## Team/Advisor Meeting Notes

* **Duration:**  *n/a*  **Members Present:** Clay, Chad, and Brian.
* **Purpose and Goals:** *n/a*
* **Achievements:** n/a

## Pending Issues

* *Figure out how/where to get our enclosure fabricated.*

## Plans for Next Week

Brian: Programming development. Backup battery circuit.

Debbie: Seek out Howe Hall 3D printing.

Chad: Start out PCB design.

Clay: *---*

## Individual Contributions

Clay: Organized the Raspberry Pi B+, LCD Screen, Rotary Encoders, and Digital Potentiometer Pinout Maps.

Debbie: Contacted Matt Nelson to look into 3D printing. Documented Team/Client meeting. Weekly report.

Brian: Documented coding standards.

Chad: Circuit models and simulations in SchemeIt and Eagle.

# Weekly hours for the project: 16

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

# total hours for the project: 149

|  |  |
| --- | --- |
| Name | Hours |
| Clay Hawken | 35 |
| Debbie Baeder | 43 |
| Brian West | 32.5 |
| Chad Stobbie | 38.5 |