Weekly report

EE 491 DEC1503

February 23, 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

A successful week of producing the project plan, meeting with the client and the advisor, and testing a preliminary circuit. We divided up the sections within the project plan in order to complete it by February 21st, we updated and referred to our advisor for guidance on content for the project plan, and we tested a simple mix of two audio sources using a solderless breadboard.

## Team/Client Meeting Notes

* **Duration:** 45 minutes **Members Present:** All
* **Purpose and Goals:** Further clarification on the concept design and Jay’s wants/needs for his audio mixer. Clay gave Jay a heads up on the coming week’s plans.
* **Achievements:** 
  + *Project Plan:* Debbie drew up a brief outline from the assignment’s rubric. The group initialized a shared Word document to start drafting the Project Plan.
  + *Concept Development:* Clay questioned and verified Jay’s intentions about numerous details on the project: Audio Mixing Design, Raspberry Pi, Power Supply, I/O, UX, Enclosure, Parts, and Noise Testing. We also further discussed the total potential cost, and the expandability of the audio mixer.

## Team/Advisor Meeting Notes

* **Duration:** 45 minutes  **Members Present:** All
* **Purpose and Goals:** To ask for clarification on the uniqueness of our project in order to deliver a precise project plan.
* **Achievements:** The follow are our meeting notes taken on February 19th, 2015
  + Hdmi cable content protection
  + Design Alternatives are very open ended - dsp concept is costly and complex
  + User Interface - web interface, phone, physical dials
  + Validation - perhaps LabVIEW scripts for audible range (checking frequency response)
  + Microsoft project for Gantt chart
  + Market research - Google different products already made that are customer oriented
  + Cost table - can change due to microcontroller used
  + Specifications - parameters for input and processing and output (useful later on)
  + Lee will be a great resource for materials and components
  + Breakdown Structure - analog design, raspberry pi, 3D casing design and fabrication
  + Design document will show what's inside

## Pending Issues

* The website is still in development, but should be on the server soon.

## Plans for Next Week

Brian: Deliver website onto server.

Team: Review spring schedule for prospective deadlines.

## Individual Contributions

Clay: Received components, and tested preliminary circuit design.

Debbie: Documented the weekly report. Recorded meeting notes. Drew up Project Plan final draft.

Brian: Continuing on website development.

Chad: Tested preliminary circuit design.

Team: Developed the first version of the Project Plan.

# Weekly hours for the project: 20

|  |  |
| --- | --- |
| Name | Hours |
| Clay Hawken | 5 |
| Debbie Baeder | 5 |
| Brian West | 5 |
| Chad Stobbie | 5 |

# total hours for the project: 61

|  |  |
| --- | --- |
| Name | Hours |
| Clay Hawken | 16 |
| Debbie Baeder | 16 |
| Brian West | 14.5 |
| Chad Stobbie | 14.5 |