

MONTHLY REPORT

EE 492 DEC1503

November 30, 2015

BLUETOOTH 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

1. Monthly Summary

Thanksgiving break marked an essential time for ordering parts, and fabricating the circuit board. Soon after, we built the final poster layout by separating the overall system design down into Circuit Design, Embedded Systems Design, and Enclosure Design. Fabrication took place soon after Thanksgiving break to give a window for testing and troubleshooting before the presentation. The second prototype is expected to give out client ease of use, and simplistic controls.

2. Enclosure Update

- Fabrication at the College of Design was a success; the LCD now has screws to hold it up, and the mechanical components are much more fitted to the enclosure. The circuitry is now housed within a small, lightweight, and user-friendly box.
- There is also a short light strip secured to the inner perimeter, and adds the optional illumination the top face of the enclosure.

3. Embedded Systems Update

- The Raspberry Pi now allows for safe shutdown and Bluetooth connectivity.
- Remote control by a mobile platform or website has been discontinued.
- The LCD screen now reads "DEC1503 Audio Mixer".

4. Pending Issues

- *Implementation of the remote control, or emittance of remote control*
- *Final testing documentation and presentation*

5. Plans for the next few weeks.

Brian: Finalize website and comment code.

Debbie: Draft testing documentation and help with fabrication.

Clay: Draft slides for presentation.

Chad: Completed the Printed Circuit Board layout. Help with fabrication.

6. Individual Contributions

Clay: Verification of poster content and design, and facilitation of final presentation outline. Identified necessary components for Bill of Materials.

Debbie: Fabricated enclosure, backlighting integration, and facilitation of the poster.

Brian: Developed proper programming for the Raspberry Pi auto-boot scripts.

Chad: Back-up power circuit completed. Helped with the Bills of Materials.

MONTHLY HOURS FOR THE PROJECT: 61

Name	Hours
Clay Hawken	16
Debbie Baeder	15
Brian West	13
Chad Stobbie	17

TOTAL HOURS FOR THE PROJECT: 419

Name	Hours
Clay Hawken	100
Debbie Baeder	106
Brian West	103
Chad Stobbie	110