

## Homework 1: Team Building and Project Idea

Team #   2   Proposed Project Name: The Drink Mixer

### Team Members (#1 is Team Leader):

- #1: David Estes                      **Areas of Expertise:** Team Leader, Audio Guru
- #2: Adam Johnson                      **Areas of Expertise:** Hardware Leader, Software Supporter
- #3: Susanne Schmidt                      **Areas of Expertise:** Software Leader, Hardware Supporter
- #4: Levi Cowsert                      **Areas of Expertise:** Packaging Leader, Hardware Supporter

### Project Idea #1:

Motivated by a desire to simplify audio mixing equipment, we will create a digital audio mixer as our senior design project. Our design will eliminate extra components and reduce the complexity compared to existing designs. This project will be able to mix together 6-8 channels of audio to produce monitor as well as stereo output. The board's features will include individual channel equalizers as well as a main effects channel that will be processed for the main output. The board will also be able to display a visual representation of the output on the board. The approximate development cost of the project prototype is \$400.00.

In this project David will contribute by providing a top down view of the project and past experience in audio processing. Adam will provide contributions in schematic and PCB design as well as programming. Susanne will provide programming support as well as debugging. Levi will contribute to hardware design as well as lead the product packaging.