My Background

- Mobile and Club Deejay
- Stage Manager
- Computer and Retail experience
- Experience with Graphic Arts
- Part-time elementary educator
- Communications Major
- Recreational skeet and target shooter
How many of you know what sound is?
What is the problem?

DJ Gear, Pro Audio, Pro Video, Stage & EFX Lighting
What is the problem?

Clients have asked what is signal path?
What is the problem?
The purpose of this instructional design project was to develop and evaluate an instructional module to improve the basic knowledge of signal path and how to create an audio sound system for adult clients at Creative Sound and Lighting.
What is sound?

Air molecules transmit sound like billiard balls.

Waves, Pressure, Medium, Frequency, Range of Hearing

Compression
Rarefaction

Crest
Trough
Target audience: Adult clients at Creative Sound & Lighting

Delivery Tool: Weebly website
Our clientele ranges from the novice to seasoned professional
Lessons of Audio Instructions

Instructions *Please click on video to Play.*

The lessons here are split into three sections.

Lesson 1 will take you through some of the most common audio theories and concepts.

Lesson 2 will go through the equipment and organizational signal chain of an audio system.

Lesson 3 will provide instructional videos for various sound system components and setup.

CONTINUE TO LESSON 1
Lesson 1: Audio Theories

Audio 101

What is Sound?

Sound is a mechanical wave transmitted by variations in pressure, transmitted through some medium. It is composed of frequencies within the range of hearing.

It can be described by what we can measure or by what we perceive. An example would be vibrations moving through air.
Lesson 2: Audio Equipment

What is a mixer or mixing console?

In professional audio a mixing console or mixer is an electronic device that combines inputs and outputs, routes, changes levels, and adds or subtracts dynamics of audio signals. Please click on video to Play.
Lesson 3: Tutorial Resources

Putting it Together.

Step 1: Putting it Together.
1. The Mixer is on the left.
2. Next to the Mixer on the top right is the Dual 31 Band Graphic Equalizer.
3. Underneath the Dual 31 Band Graphic Equalizer is the Crossover.
4. Directly underneath the Crossover is the Power Amplifier.
5. The microphone shown is then plugged into the Mixer with an XLR cable.
6. Next you want to plug in an audio device such as an iPod or phone you can do so with a Dual quarter inch cable to a stereo mini 1/8 inch.
Project Planning

- Initial idea paper, previous review of Instructional Design
- Literature Review on topic and similar studies
Design Tools

- Tellagami
- Snapz Pro X w/ Movie Capture
- HandBrake
- Weebly
Design Tools
Accomplishments

- Figured out voice overs using Tellagami and Final Cut.
- The owners gave their approval (prototype).
- Website is up and running.
Obstacles/Challenges

- Time frame of getting approvals for logos, photos, and videos
- Figuring out the right design tools and media
- Time frame to shoot and edit videos
Delivery Device

Welcome to Creative Sound Hawaii's Instructional Website.

Creative Sound™
located on the Windward Side 808.236.2766
Why a website:
- Easily accessed outside of our store
- Easily managed and maintained
- Relatively inexpensive vs. print and ad space
- Can be shared on computers, tablets, and mobile devices
Personal Reflections

What Worked
• Weebly as the mainframe
• Design Tools
• Personal pictures from staff
• Peer feedback group 3
  Dave and Dal
What didn't work

- My work schedule
- Getting the film crew to come in prior to December 3
What went wrong
• Getting approval for product logos
What went well

• Able to use Dis n Dat lighting to assist in shooting tutorial videos
• Able to use Dis n Dat footage for references to products
What I would do next time.

- Plan ahead
- Have a topic ahead of class
- More research on Apps and Design Tools
What would I do if I had more time and money?

• Have Dis n Dat shoot and edit all my videos
• Pay for real web hosting to minimize video lag
• Conduct a poll on what our clients want
My attempt at editing video for demonstrations vs. professional footage.

**Putting it Together.**

*In professional audio, a mixing console or mixer is an electronic device that combines inputs and outputs, routes, changes levels, and adds or subtracts dynamics of audio signals. Please click on video to Play.*
• Hope to fulfill clients needs of understanding signal path and audio equipment.
• Potentially saving company / clients time and money.
• By providing knowledge for our clients to make better informed decisions and purchases.
Thank You!

- Dr. Irvine and LTEC 687/690 family
- Critical friends: Dave and Dal
- Credit to: Microsoft Office & Clip Art, Weebly, Dis N Dat TV Crew, Finalcut, and Tellagami.
Questions?