Zachary Gerardi: Project Manager
Recording and Remixing

Department of Entertainment Technology

Method:

Introduction

Overview:

This project consists of recording a show using the JoeCo multitrack recording devices, taking the recording back to City Tech and line by line mixing the show as if it were live. This project will start the recording process on April 10th, wrap up on April 23rd, and the mixing portion will occur on May 9th. This project will utilize The JoeCo recorders, a network switch to connect the JoeCo to Dante, as well as the wireless mic receivers, the CL5 residing in the Vorhees theater, and the existing Dante and sound systems there.

Objective:

While brainstorming what to do for my culmination, I had reached out to John Huntington looking for ideas, since he was the most natural pick for technical advisor. During our meeting, he had asked what I would want to do for a living once I graduate, and I replied that my dream job would be to live mix theatrical shows. At the end of the meeting, we had decided that my project would be to find a multitrack recording of a musical and line by line mix the whole thing and record myself doing so. Upon further research, however, I had discovered that no such recording existed freely on the web. Seeking guidance, I had talked to my technical production professor, Daniela, and she suggested if there is a show where I interned, why not use the JoeCo to record multitrack there. So, after much changing and shifting, my final goal is to successfully establish a small Dante system at my internship, record the production of Arsenic and Old Lace they are performing, and then bring it back to Vorhees and mix the entire show "live."

Acknowledgements

John Huntington, Nikki D'Agostino, Daniela Tomaino, Adam Wilson

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Method Breakdown
PM: Zach Gerardi

1. Planning
a. Meeting with Huntington
  i. Establish end goal
  ii. Register for Culmination
b. Proposal
  i. Draft Proposal
  ii. Submit to Ryoya
c. Finding a technical advisor
  i. Nikki taught classes in both of my tracks, so I chose her

2. Research
a. Look for a video on how to mix line by line
  i. Huntington sent a video over as an example
  ii. Easy to replicate filming method
b. Find a show recorded multitrack
  i. Searches turn up empty
  ii. Copyright laws prevent public release of such a recording
c. Reach out to Internship to Record their Show
  i. Thanks to Daniela, I had the idea to record my internships next production
  ii. Internship agrees

3. Preparation
a. Aquire Dante and a Laptop to Run it
  i. Dante License was free
b. Aquire School Equipment
  i. Successfully checked out the JoeCo rack
c. Aquire Model of Internship owned equipment
  i. Board has no network out
  ii. Wireless mic receivers have dante primary and secondary out

4. Installation (Internship)
a. Install JoeCo Rack
  i. Establish Dante network
  ii. Turn on Rack
b. Incorporate Internship System
  i. Dante Primary out from receivers into network switch, patch in Dante to JoeCo
c. Test
  i. Test recording successful

5. Recording (Internship)
a. Recording Tech Rehearsal
  i. When setting up JoeCo, two of the tracks used were not armed
b. Recording Actual Show Day
  i. Rectify track arming
  ii. Recording takes successfully

6. Installation (Vorhees)
a. Reinstall JoeCo Rack
  i. Re-patch JoeCo into Vorhees system
b. Playback Test
  i. Patch JoeCo to CL5
c. System Resetting for Normal Use
  i. Theater was shared due to Bindlestiff, so I had to reset the Dante and CL5 after every use

7. Recording (Video)
a. Setting up the shot
  i. Compose shot and spike day prior
  ii. Check out camera from school day of
b. Recording
  i. Camera took the audio of the room perfectly, no problems

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Materials

A. School Equipment
1. 1 x JoeCo
2. Rack currently at blue table
3. 8 x CAT5 @10'
4. 1 x Cisco 8 port Network switch
5. CL5
6. Current Sound and Network System

B. Internship Equipment
1. 12 x Shure ULDX 1 Wireless Mic Transmitters
2. 1 x Yamaha MGXU 20 mixer
3. Shure ULDX Wireless Mic Receivers

C. Personal Equipment
1. Lenovo Yoga Laptop
2. WD External Hard
3. USB – C to CAT5 converter

Obstacles

1. Technical Issues
- The mixer used by the production company did not have network out, so I had to use the network out on the receivers themselves, however this ended up being a blessing, because it gave me the raw signal, rather than the mixed signal the board would have.
- During the initial test recording, I had not armed two of the channels for recording on the JoeCo. This was easily rectified on future recordings.

2. Covid-19
- While attending the tech rehearsal, I had contracted Covid. Not only did this keep me bedridden, but it was also during the run of the show. Luckily, on the last day of the show's run, I had tested negative. However, the fatigue from the illness impacted my ability to work on the project, as well as my other classes.
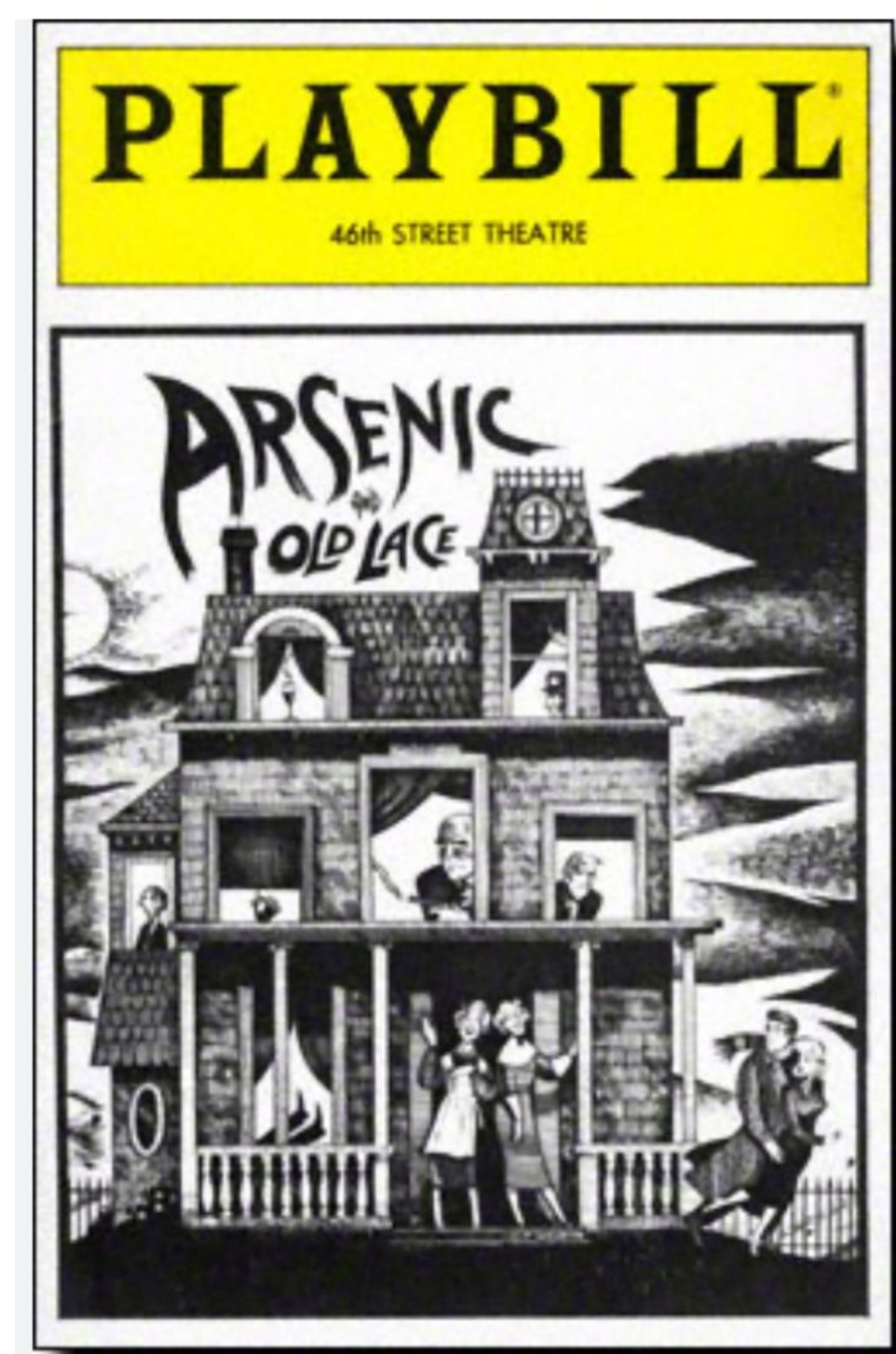

Results

1. The system worked as intended.
2. The recording took as intended and was useable in our system.
3. Mixing the recording and recording the footage went off without a hitch, except for one minor interruption from a janitor.
4. I reinforced the idea that this is what I want to do for a living, which I suspect was Huntington's goal when suggesting this as a project.

Conclusion

In the end, I was able to successfully establish a functioning network system where I interned, record the show, bring it back and mix it.

April

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
						1
2	3	4 Equipment check out	5	6	7	8
9	10 COVID Recording 1	11 COVID	12 COVID	13 COVID	14 COVID	15 COVID
16 COVID	17 COVID	18 COVID	19 COVID	20 COVID	21 COVID	22 COVID
23 Final Recording	24	25	26	27	28	29
30						

May

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	1	2 Mixing Practice	3	4 Mixing Practice	5	6
7	8	9 Final Mixing	10	11	12	13
14	15	16 Presenting	17	18 Poster Session	19	20
21	22	23	24	25	26	27
28	29	30	31			