

Alejandro Suquisupa  
ENT 4499  
Professor Terao  
5/16/20

## Culmination Reflection

This culmination project has challenged me. Not only has this project challenged me but this major has challenged me. I transferred here to City Tech three years ago during the Spring 2017 semester. Not knowing a thing about the industry, being as green as one could be. And three years later I was able to design an AV system.

So, for my culmination I designed the AV system for Stage Lighting Super Saturday. This is a lighting convention that has presenters who are in the industry and manufacturers showcasing some of their products. City Tech held the event for the first-time last year and we were fortunate to hold the event again this year. This event is more of a corporate/conference like type of event. Which is something I have not done much of, therefore I would gain a bit of experience from doing this type of event.

When asked to possibly consider this AV system design for Stage Lighting Super Saturday, I thought it would be the best for me. As an audio person I thought it would be a good refresher for me since I have not done a design since Professor Huntington's class in the semester of Fall 2018. Also, it would be good for me to learn how to setup a video system. Not having much experience with video systems would benefit me for the future especially since audio and video sometimes get paired up together. With agreeing to the project, I had my audio system done first since that was what I was more comfortable with. Then onto my video system which my technical advisor John Huntington helped me with. With the video system it changed a few times. Originally the plan was to do HD Base T, that changed since the host/organizer of the event did not want the logo of the projector to show up on the screen since it makes it look unprofessional. Which is understandable so we redesigned and added the ATEM Television Studio switcher. This would allow us to have a clean switch between the presenter's laptop and the hosts laptop. We were unable to test the video system during the Fall 2019 school year, so we had to test it another time before the beginning of the Spring 2020 semester.

With Stage Lighting Super Saturday being the first event being held and being held the first Saturday of the first week of school, it made things a bit stressful. We had to do a lot of the heavy lifting of the event before the Spring semester even started. The Thursday before school started me, and John came in to test the video system and realized that for the presenter's that all their laptops might be a different resolution than our resolution on the switcher. With learning this John bought a Lumantex video scaler to convert the signal from one resolution to another. He bought two models that went HDMI in and SDI out, and SDI in and HDMI out. The SDI in and HDMI out model would be for the presenter laptop and the other model would be for our NEC projector which only takes HDMI in. The following day Friday we had a volunteer crew call in which five people volunteered and two of them were graduates, I appreciate all of them who came to help. We brought down our PA and took the over off and retrimmed it to height. Then I broke the crew up for one team to set up the RF rack, antennas, and cables for the RF system. Then another team bring in a rack that I did into the upstage left room that had the Rio 3224 and run a snake that at one end had a stage box and another end that had male XLR to

Alejandro Suquisupa  
ENT 4499  
Professor Terao  
5/16/20

connect to the Rio. After I had one of the teams go up to the catwalk and focus the PA. Once the audio setup was done, we retested the video system with the lumantex scaler, and it worked perfectly. With the video system working it was now time to set it up in the theater. Bringing the projector up to its platform and running the SDI cable from the platform to the catwalk and easing the cable down to the downstage left portion of the deck.

With all of that being down it was onto the first week where I explained the event to the AV tech production crew and showed them the signal flow for audio and video. I had the crew pick a cable and label it and I would test the inputs through the PA. There was a last-minute change and we were able to rent a projector from Worldstage thank to the organizer. Which actually helped us because we were able to eliminate one of the Lumantex scalars that was meant for the projector since this projector can take SDI. Then it was onto the event that went smoothly no hiccup on either audio or video system.

From this culmination project I was able to have a better understanding of video systems. Have some experience of the corporate/conference world. And gain experience in being an A1, Crew Lead, and a system designer. I have gained tremendous experience throughout my years here at City Tech. I was also fortunate to be able to do this event before the pandemic. I have the signal flow for audio and video, and inventory list, an input and output list and a calendar all in my Eportfolio. Overall I feel like this was a great experience and hope that this event can continue for years to come and that other students can get to work on this event and make it even better.