System Upgrade Proposal

Prepared by: Augustus Kapko

Prepared for: CityTech Entertainment

Augustus Kapko

Culmination Proposal

Spring Semester 2018

Proposal number: 0.2

# Project Description

## Objective

In my time at City Tech, I have learned about Sound Systems, Project Management and Technical Direction. Upon graduation I plan to work as a Project Manager, and in order to better prepare myself for this position I am planning on using my culmination to simulate a project including audio and video system upgrades. I would like to combine research, planning, material pricing, procurement and installation planning by designing and proposing a new sound and video projection system for the Voorhees theatre.

This project will allow me to practice project planning, budgeting, grant writing, and system design. The aforementioned skills will allow me a greater understanding of my project management.

# Methods

## Audio System

I am planning on designing a speaker system to provide audio to the audio for the audience in the Voorhees theater. In order to do so I will use software tools to plan for a system that provides coverage and intelligibility. I will use software to calculate the required equipment, and estimate its coverage, maximum spl level and frequency curve. In order to accomplish this I will utilize software including MAPP XT. My final report will include a grant proposal, vendor bids, a budget, and relevant documentation. Overall I will learn how to design a speaker system from idea to grant proposal.

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## Video System

I plan to design a upgrade to our projection systems used in the theatre for the haunted hotel, major shows and other events. Utilizing software to calculate the throw distance and lumens required to best suit the needs of our productions. My final report will include a grant proposal, vendor bids, a budget, and relevant documentation. Overall I will learn how to design a speaker system from idea to grant proposal.

# Deliverables

## Materials Estimate

Project budget based off vendor bids, including expected ongoing maintenance cost based on expected life of proposed equipment.

## Drawings

Installation drawings

## System Specifications

Speaker simulations including coverage pattern and frequency curve.

Projection distance throw based off lensing, along with brightness estimates

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## Pricing Contracts

Bids of equipment from vendors

## Research Notes

Any relevant material I discover through the project

## Poster

## OpenLab Portfolio

## System Design Package Grant Proposal

A grant proposal that will be ready to be submitted to CUNY for purchase of equipment

# Schedule

|  |  |
| --- | --- |
| Week 1 | Research into equipment needs |
| Week 2 | Preliminary research |
| Week 3 | Preliminary drawings |
| Week 4 | Contact vendors for bids |
| Week 5 | Preliminary budget |
| Week 6 | Preliminary system designs |
| Week 7 | Receive feedback and work on revisions |
| Week 8 | Submission of Revised of System Designs |
| Week 9 | Receive feedback and work on revisions as needed |
| Week 10 | Final Budget |
| Week 11 | Final System Designs |
| Week 12 | Revisions as required |
| Week 13 | Submission of Openlab Portfolio and Final Grant Proposal |
| Week 14 | Submission of Poster Presentation |

# Required Resources

## Software

Mapp XT

AutoCad

Microsoft Office

## Other

Faculty advice

# BUDGET

## Actual Cost

| Description | Quantity | Unit Price | Cost |
| --- | --- | --- | --- |
| Misc. office supplies | 1 | $‎ 50 | $‎ 50 |
| Printing | 1 | $‎ 25 | $‎ 25 |
| Poster | 1 | $‎ 50 | $‎ 50 |
|  |  |  |  |
| Total |  |  | **$‎ 125** |

# Proposed Table of Contents

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Video System

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Conclusion   
Annotated Bibliography

# Project Agreement

## CULMINATION PROJECT AGREEMENT

Submit signed copy to your ENT 4499 Professor

1. Student Name: Augustus Kapko
2. Phone number: +1 (714) 906-0266
3. Email: Augustus.kapko@mail.citytech.cuny.edu
4. Title of the project. Voorhees Theatre Proposed System Upgrades

This Agreement is entered into between:

Student’s name: Augustus Kapko

Faculty advisor: Tony Giovannetti

Technical advisor: John Hunnington

1. This is an agreement whereby grade and credit for ENT 4499 will be awarded in return for specified project efforts. It is agreed that all work described in this Agreement will be completed as scheduled and within the cost total and other parameters as noted.

2. Student will meet with the technical adviser at least 3 times throughout the course of the project.

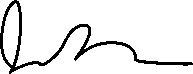
3. Failure to maintain the agreed-upon plan and schedule may result in grade penalties. Failure to submit the complete project and report by the scheduled date will result in failure of ENT 4499

4. You will provide both your advisor and technical advisor with a copy of your proposal which will include the following:

* Project description
* Methods
* Project Deliverables
* Schedule or calendar
* Required Resources
* Budget
* Proposed table of contents/Portfolio Outline
* Culmination Project Agreement (this page)

Technical Advisor’s Statement: I agree to serve as Technical Advisor for this culmination project and will participate in the evaluation as appropriate.

John Hunnington



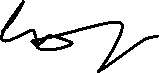
\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Technical Advisor Signature /// Feb 06 2018 Date

(signed on hard copy tuned in)

Student’s Statement: I fully understand the Project description, the Procedure, and the agreed-upon contributions of my Technical Advisor and others who may be involved in this Agreement. I agree to meet all requirements and to request, in writing, any significant changes, which may become necessary during this Culmination project. Any such request will become valid and a part of this Agreement/Contract when accepted by my Faculty Advisor.

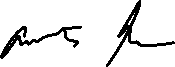
Tony Giovannetti

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Faculty Advisor Signature /// Feb 06 2018 Date



(signed on hard copy tuned in)

Augustus Kapko



\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Student Signature /// Feb 06 2018 Date