



City Theatrical Summer Internship 2023: LED Linear Lighting Installation Project

Many people don't know that City Theatrical offers a summer internship programs to a select few undergraduate student in the areas of engineering and manufacturing at our facility in Carlstadt, New Jersey, USA. We value our summer interns among the incredible people behind our products, and strive to provide them with meaningful learning experiences that inspire a career in lighting.

In celebration of this year's summer internship program at City Theatrical, we talked to **Joe Fails**, our Production Manager, in July 2023 to learn more about a special LED linear lighting installation project that was performed this year, as an example of the many projects and great work that was done over the course of a few months.

2023 Engineering Interns:

- Christopher Lee, undergraduate student at Middlesex College
- Kyle Donahue, undergraduate student at Rochester Institute of Technology

LED Linear Lighting Installation Project Goals:

- To recycle used LED linear lighting.
- Incorporate light into our manufacturing workspace.
- Complete the project in less than a week to avoid interfering with manufacturing workflows.

Intern Responsibilities:

Take full autonomy over a project, from:

- Managing an initial idea to a design and plan
- Cost and materials budgeting
- Meeting the challenges of an installation in a unique environment

Unique Challenge:

Install the lighting while the manufacturing teams were at work in an office situated within a bustling 40,000 s.f. manufacturing facility.

Previous Experience:

Christopher had experience as a summer intern at City Theatrical the prior year, and was familiar with the products and how to use the QolorFLEX line of linear lighting, dimmers, and accessories together.

Kyle had experience working as an electrician's apprentice for three summers. He was able to punch through the drywall and hide all the cables required to control the tape through the QolorFLEX 5x8A Dimmer used.

Project Learnings:

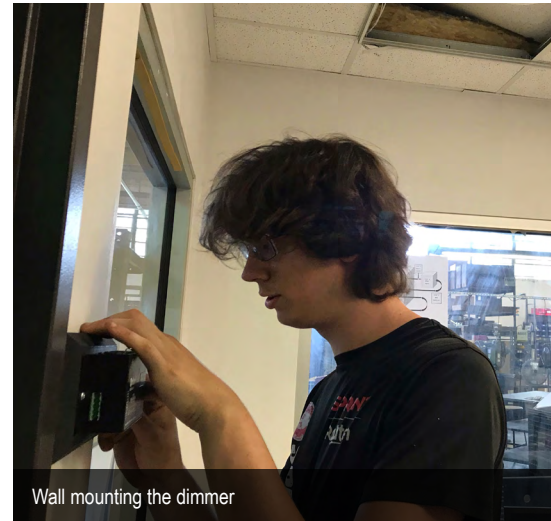
Together, they were able to create their own method of installing aluminum extrusions onto a flat surface with no fasteners and still provide a secure mount for the demands of the project.



Soldering



Drywall punching and wiring



Wall mounting the dimmer



QolorFLEX 5x8A Dimmer mounted

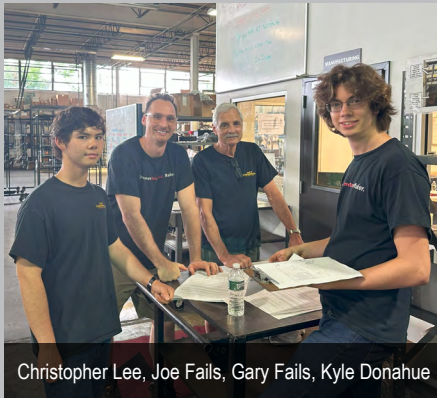
Results:

Christopher and Kyle were able to recycle an unsellable product into a beautiful and functional addition to City Theatrical's NJ manufacturing office lighting. In doing so, they gained the experience of performing a difficult LED tape installation, like making 90-degree cuts, wiring LED tape to a low voltage dimmer, taking measurements, and keeping it all clean and professional looking.

The interns were not only able to use their abilities to provide a lasting benefit to the office and their colleagues, but also have meaningful work experience as they start their careers in the lighting industry.

City Theatrical Products used:

- QolorFLEX NuNeon®, RGB
- QolorFLEX NuNeon, Warm White
- QolorFLEX® 5x8A Dimmer
- Aluminum extrusions
- VHB double sided tape

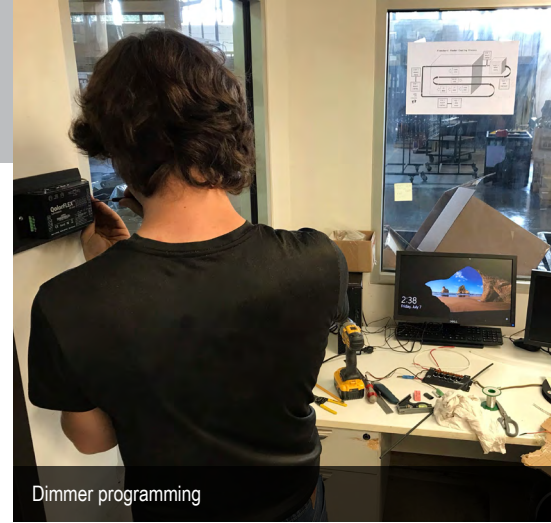


Christopher Lee, Joe Fails, Gary Fails, Kyle Donahue

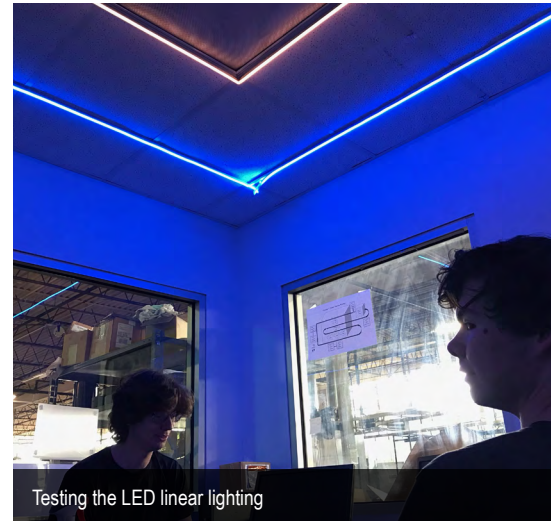
“I never imagined what a joy it would be to work with this year’s interns. Every day they face the challenge of doing things they have

never done before with a smile on their faces, constantly asking what’s next, project after project. For this two-day project, they managed to design, account for the parts and materials, install and wire a QolorFLEX NuNeon set up out of recycled LED tape for our manufacturing office. These two both have a bright future ahead of them. Any organization would be lucky to have them.”

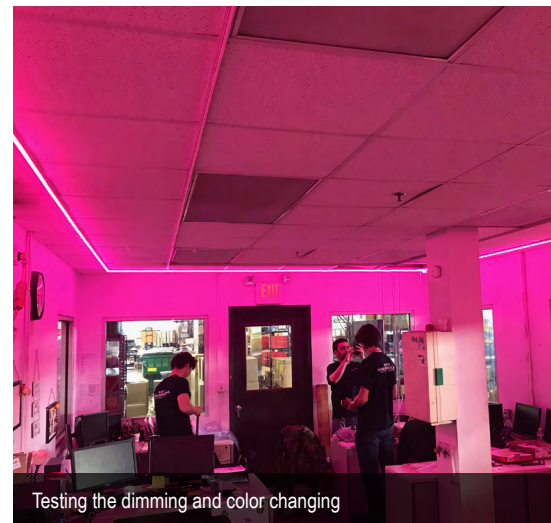
- Joe Fails, Production Manager, City Theatrical



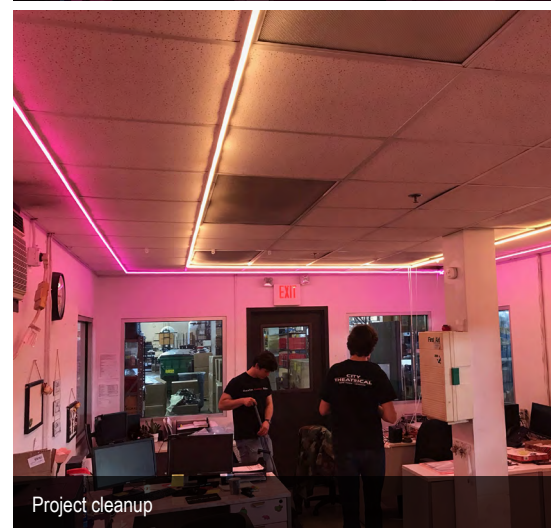
Dimmer programming



Testing the LED linear lighting



Testing the dimming and color changing



Project cleanup