

# Dylan Epstein

Somerville, MA

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## Professional Summary

Design/Applications Engineer specializing in architectural LED lighting systems, controls integration, optical testing, and custom fixture development. Experienced with full project life cycle, from documentation through photometric validation, manufacturing support, and customer-facing technical sales. Strong mechanical background with hands-on prototyping and workflow development.

## Education

**Northeastern University**, Boston, MA

May 2022

Bachelor of Science in Mechanical Engineering

## Work Experience

**Xico Lighting**, Woburn, MA

*Applications and Design Engineer*

2024 – Present

- Integrated lighting controls and sensors into fixture/assembly designs, including DMX, DALI, Lutron, phase-dimming, presence sensing, daylight harvesting, and circadian lighting
- Produced CAD drawings, wiring and controls documentation, and build packages for custom optical assemblies and special applications
- Owned all photometric and optical testing, improving efficiency by developing detailed SOPs and documentation
- Designed, iterated, and fabricated novel LED lighting fixtures and associated components
- Created customized layouts and detailed photometric calculations to support customer-facing technical sales
- Collaborated closely with customers, designers, and manufacturers to provide hands-on subject matter expertise and ensure seamless product selection, manufacturing, and installation

**Silent G Productions**, Yorktown Heights, NY

*Theater Lighting Engineer*

2021 – 2024

- Executed the installation of lighting fixtures and control systems for multiple professional and amateur theaters
- Collaborated with lighting design team to program lighting cues and system functions for theatrical productions
- Constructed large, moveable, and programmable set pieces with integrated electrical and control elements
- Established and maintained an inventory organization system to improve the efficiency of equipment selection

**Square Robot Corporation**, Boston, MA

*Design Engineering Co-op*

6 Month Co-op

- Designed components and prepared CAD drawings to improve the functionality of submerged robotics systems
- Implemented robotics testing in live applications to evaluate integrity of active petroleum storage tanks

**Instrumentation Laboratory**, Bedford, MA

*Reliability Engineer Co-op*

6 Month Co-op

- Designed and built test platforms to evaluate component reliability of homeostasis instruments
- Conducted detailed statistical analyses of gathered data to support ongoing reliability testing

**Digital Lumens**, Boston, MA

*Application Engineer Co-op*

6 Month Co-op

- Performed lighting analyses and testing to produce reference material used in the selection of efficient lighting layouts
- Developed training material and programs for Digital Lumens' high-efficiency LED lighting systems

## Skills

**Applications:** SolidWorks, AGI32, Revit, ProE, MATLAB, AutoCAD

**Tools:** Manual Lathe and Mill, various photometric and optical test equipment, Goniometer, 3D Printer, Laser Cutter, MIG Welding, Woodshop tools and machinery