

CITY THEATRICAL

NEW YORK • LONDON

An **Environmental Lights** Company

Job Description

Posted: February 4, 2025

Title: Software Engineer
Reports to: Head of Engineering

Department: Engineering

City Theatrical has been inventing and manufacturing award-winning, industry-leading products and technology for over 39 years. Even if you have never heard of City Theatrical, chances are you have seen our industry-trusted products brought to life in productions, such as:

Broadway: *MJ The Musical*, *Moulin Rouge! The Musical*, *Hamilton*, *The Phantom of the Opera*, *The Lion King*, among [many others](#).

Tours: [Madonna's Celebration Tour](#) and MDNA Tour, Carrie Underwood's [Denim & Rhinestones Tour](#), America's Got Talent (AGT), U2's 360 Tour, Taylor Swift's Red Tour, and more.

Broadcast Television studios: [CBS Studio](#) for *Evening News with Norah O'Donnell*, [ESPN Studio Y](#) for *SportsCenter*, NBC's *The Tonight Show*, *Saturday Night Live*, and *Late Night with Seth Meyers*, MSNBC News, Fox News, NBC Sports, and more.

TV and Film Industry Projects: [The Unicorn](#), Netflix Film [End of the Road](#), [Stranger Things](#) Season 4, *The Gilded Age*, *The Marvelous Mrs. Maisel*, and more.

City Theatrical's dedication to being the best in the industry exemplifies the company's culture and motto: We invent, manufacture, and customize unique lighting accessories and technology.

Outlook: If you are comfortable designing electrical schematics as you are at building prototypes and writing lines of firmware, then become a member of City Theatrical's tight knit Engineering team. We are a hands-on team with design and development work some engineers will never have the chance to do.

Representative Responsibilities:

- Design Engineering
 - Contribute to the product development process with product definition ideas and original design solutions
- Engineering
 - Construction of Prototypes
 - Assist with formulation of test criteria for products
 - Perform performance tests on products
 - Assist with maintaining lab materials, supplies and tools
 - Assist Engineers in developing manufacturing procedures and documentation for new products

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www.citytheatrical.com

- Assist in compliance testing
- Create ERP Bills of Materials and ERP structures for new designs
- Contribute to manufacturing training and supervision for electronics products

- Make firmware revisions to existing and in development products
- Develop firmware for embedded systems (ATMEL/ARM/MICROCHIP)
- Develop firmware software using C, C++, Verilog, VHDL
- Develop Firmware and applications for Bare Metal, Android, iOS, Windows and macOS

- Engineering Documentation
 - Create/Edit Theory of Operation Documents
 - Create/Edit Manuals
 - Create/Edit Cut Sheets
 - Create/Edit Assembly instructions
 - Create/Edit QC procedure Instructions
 - Create/Edit Compliance reports

Additional Responsibilities:

- Other duties as assigned
- Completes special projects and requests in a timely and positive fashion

Knowledge, Skills and Abilities:

- Fluency with standard electronics test equipment including DDM and Oscilloscope
- Advanced PCB level soldering skills, SMD and Thru-Hole
- Fluency with standard engineering documentation such as conventional electronic schematics, etc.
- Ability to identify standard electronics components and determine their values using industry standard ID references
- Understanding of electrical components including IC's
- Reliable knowledge of and ability to apply good electrical safety practices
- Excellent communication and organization skills
- Ability to work independently and as part of a team
- Effective problem solving and creative thinking skills
- Flexible and able to adapt to change
- Able to lift up to 50 pounds
- Interacts "professionally" on a consistent basis with coworkers, other departments, suppliers and contract manufacturers.
- Consistent positive attitude.
- Communicates effectively.
- Can accept feedback.

Education and Experience:

- Bachelor of Science degree in Computer Engineering or similarly related field and 3-5 years of experience, or
- Associates Degree in Electronics Engineering or similarly related field and 7+ years of experience

Compensation Includes: Competitive Salary, Profit Sharing, 401K, Health Benefits, Dental Insurance, Paid Time Off, Vision Insurance.

To apply, send your cover letter and resume to: info@citytheatrical.com

Connect with City Theatrical!



<https://www.citytheatrical.com>