

Benjamin Antupit

benjamin@antupit.com • (650) 207-3694

Education

Worcester Polytechnic Institute (WPI), Worcester, MA

BS+MS Graduation: May 2025

Bachelor of Science in Robotics Engineering with a Minor in Technical Theatre

Master of Science in Robotics Engineering

Skills

Live Entertainment Production Tools: TAIT Navigator, PRG Stage Command, Vectorworks, ETC EOS

Programming Languages: Python (specialized in ROS), MATLAB, TypeScript, Java, C++, and VS Code

AV/Entertainment Networking: Dante Level 3 Certified (2nd Edition), EtherCAT, ArtNet/sACN/ETCNet

Design Applications: PTC Creo, SolidWorks, Onshape, Adobe Suite, and Affinity Designer

Production Equipment: Chain Hoist Repair, Stage Lifts, Revolves, Moving Lights, Scissor/Boom Lifts

Relevant Work Experience

Scenic Control Systems Intern, PRG Scenic Technologies, New Windsor, NY May 2024 - August 2024

- Commissioned new scenic automation systems for touring & NYC Broadway productions
- Operated and provided field support for scenic automation and performer flying systems
- Collaboratively designed and supported stage machinery and safety systems using Rockwell PLCs

Control Integration and Field Engineering Intern, TAIT, Lititz, PA June 2023 - August 2023

- Completed commissioning for stage automation and show control systems used in international concert touring, theater, opera, theme parks, cruise ships, and unique entertainment applications
- Implemented and/or tested 10+ projects in 10 weeks using Beckhoff/Siemens PLCs and QNX Linux
- Trained to program automation show control systems with TAIT Navigator 102 certification

Additional Work Experience

Robotics Engineering Intern, Blackstone Valley Engineering, Shrewsbury, MA April 2024 - May 2024

- Researched, presented, and assisted in developing a microfluidics process with a SCARA robot

Lighting Design Teaching Assistant, WPI Theatre, Worcester, MA January 2023 - March 2023

- Collaborated with professor on course planning, lessons on design theory and training for ETC EOS

Selected Projects

Robotic Recycling Manipulation and Sorting, WPI MERlab ([Read more here](#)) October 2024 - Present

- Collaborated with interdisciplinary team to research grasp generation and waste classification
- Developed software, presented research, and worked closely with sub-teams on systems integration

Disc Golf Inventory System, WPI + Maple Hill Disc Golf ([Read more here](#)) August 2023 - May 2024

- Designed, developed, and integrated disc analysis machine with capacity for 300+ discs per hour
- Handled many roles including system integration, client liaising, and project management

Practicum in Theater Lighting Design, WPI ([Read more here](#)) January 2022 - April 2022

- Awarded university "Class of 1879 Prize" for Outstanding Projects in the Humanities
- Composed and programmed design ideas in collaboration with directors and co-lighting designer
- Documented lighting plots and fixture schedules using Lightwright, Vectorworks, and LaTeX

Leadership and Activities

Technical Director (and other elected positions), [WPI Lens and Lights](#) February 2022 - February 2025

- Collaboratively planned and coordinated lighting, sound, video, rigging, rental equipment, and student crew for 200+ events per year serving the WPI campus and surrounding community
- Maintained and coordinated repairs for over \$1.3M in lighting, audio, and rigging equipment
- Trained and mentored 40+ crew members in event planning and technical execution
- Previously served as President (2023-24) and Vice President (2022-23)

Event Production Manager, Worcester, MA and Nearby January 2023 - February 2024

- Planned events ranging from concerts to fashion shows to nonprofit benefits
- Collaborated with clients and crew to develop vision and budget for video, lighting and sound design

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Theatrical Production Credits at Worcester Polytechnic Institute (Worcester, MA)

Company	Production	Role	Supervisor	Date
Masque	Macbeth	Asst. Master Electrician	Julie Andrade	October 2021
VOX Musical Theatre	Dogfight	Asst. Master Electrician	Nicholas Moy	October 2021
WPI Theatre Dept.	Silent Sky	Head Electrician	Laura Eckelman	December 2021
VOX Musical Theatre	Once Upon a Mattress	Master Electrician	Chayanne Sandoval-Williams	January 2022
WPI Theatre Dept.	New Voices 39	Lighting Designer	Laura Eckelman	April 2022
VOX Musical Theatre	Urinetown	Lighting Crew	Mitch Jacobs	October 2022
VOX Musical Theatre	Bonnie & Clyde	Projections Designer	Luke Foley	January 2023
VOX Musical Theatre	Cabaret of Horrors	Lighting Mentor	Chayanne Sandoval-Williams	April 2023
WPI Theatre Dept.	New Voices 40	Sound Designer	Laura Eckelman	April 2023
VOX Musical Theatre	Something Rotten	Technical Director	Parker Langa	October 2023
VOX Musical Theatre	Be More Chill	Technical Director	Jesse Drozd	October 2024
VOX Musical Theatre	Ride the Cyclone	Draftsperson & Lighting Programmer	Parker Langa	January 2025