

# Benjamin Antupit

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## Skills

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**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 (2<sup>nd</sup> 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

## Education

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**Worcester Polytechnic Institute (WPI), Worcester, MA**

Bachelor of Science in Robotics Engineering with a Minor in Theatre

May 2025

Master of Science in Robotics Engineering

May 2025

## Relevant Work Experience

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**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 implemented control 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

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**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

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**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

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

- Awarded university "Class of 1879 Prize" for Outstanding Project 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

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**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
VOX Musical Theatre	<i>Ride the Cyclone</i>	Draftsperson & Lighting Programmer	Parker Langa	January 2025
VOX Musical Theatre	<i>Be More Chill</i>	Technical Director	Jesse Drozd	October 2024
WPI Theatre Dept.	<i>Nothing is the End of the World...</i>	Projections Designer	Laura Eckelman	December 2023
VOX Musical Theatre	<i>Something Rotten</i>	Technical Director	Parker Langa	October 2023
VOX Musical Theatre	<i>Cabaret of Horrors</i>	Lighting Mentor	Chayanne Sandoval-Williams	April 2023
WPI Theatre Dept.	<i>New Voices 40</i>	Sound Designer	Laura Eckelman	April 2023
VOX Musical Theatre	<i>Bonnie &amp; Clyde</i>	Projections Designer	Luke Foley	January 2023
VOX Musical Theatre	<i>Urinetown</i>	Lighting Crew	Mitch Jacobs	October 2022
WPI Theatre Dept.	<i>New Voices 39</i>	Lighting Designer	Laura Eckelman	April 2022
VOX Musical Theatre	<i>Once Upon a Mattress</i>	Master Electrician	Chayanne Sandoval-Williams	January 2022
WPI Theatre Dept.	<i>Silent Sky</i>	Head Electrician	Laura Eckelman	December 2021
Masque	<i>Macbeth</i>	Asst. Master Electrician	Julie Andrade	October 2021
VOX Musical Theatre	<i>Dogfight</i>	Asst. Master Electrician	Nicholas Moy	October 2021