

Benjamin Antupit

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Education

Worcester Polytechnic Institute (WPI), Worcester, MA

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

May 2025

Master of Science in Robotics Engineering

May 2025

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 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

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