

RYAN M. BORRUSO

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EDUCATION

Purdue University, College of Engineering, West Lafayette, IN

Class of 2029

Major: BS in Multidisciplinary Engineering - Theatre Engineering Concentration

Cumulative GPA: 3.67 / 4.0

Courses Taken: Multivariate Calculus; Linear Algebra/Differential Equations; Physics - Modern Mechanics; Engineering - EPICS; Chemistry; Computer Science - Programing for Engineers; Written and Oral Communications; Theatre Production; Collegiate Band

Courses in Progress: Thermodynamics; Basic Mechanics (Statics); Intro to Drafting, Rigging, and Scenic Construction; Project Planning for the Stage; Production & Design Seminar; Graphics for Civil Engineering and Construction; Concert Band

EXPERIENCE

Theme Park Engineering and Design (TPED), Purdue University

August 2025 - Present

- Fundraising Chair. Developing fundraising events to increase revenue while engaging and expanding outreach to the surrounding community. Communicated with officers, chairs, and members to schedule events. Cold-emailed businesses and organizations to secure fundraising partnerships and opportunities.
- Show Systems. Implementing mechanical design principles and creating unique ride and show effects for a scaled, immersive, and storytelling driven dark ride. Interpreted the creative vision while learning ASTM standards.
- Theming Design Team Lead. Assisting in development of a functioning and interactive 3D model roller coaster utilizing SolidWorks. Led theming team in ideation, development, and integration of immersive elements for coaster. Ensured cohesive implementation of upper-chassis and theming elements with other sub teams.

Purdue University Department of Theater, Purdue University

August 2025 – Present

- Deck Carpenter. *The Hunchback of Seville*. Responsible for the repair, maintenance, and upkeep of scenic elements during technical rehearsals and performances. Upheld safe maintenance standards and inspection of any moving scenic elements, and for training/supervising running crew in the operation of moving scenic elements.
- Scenic Carpenter. *Horse Girls, Snow, Galinthis and Our Town*. Crafting custom and innovative scenic elements for authentic theatrical use. Gained experience in rough carpentry, framing, constructing load bearing structures and facade development. Meeting the needs of the production by reading and implementing production drafting's and participating in load-ins and strikes.

Stage Machine Design Competition, Purdue's Fusion Studio for Entertainment & Engineering

August 2026 - Present

- Team Member. Tasked with designing a mechanism behind a pop-up dart trap effect. Specifically, two elements: a mechanism to lift the "head," and a mechanism to propel the "dart". Ensured project adheres to all competition standards and constraints.

Children's Educational Demonstrations Project Team, EPICS, Purdue University

August 2025 – May 2026

- Visuals Team Lead. Assisted in design, creation and installation of scientific model of "mini-tornado" to be installed at The Children's Museum of Indianapolis utilizing Python, Excel, Autodesk Fusion 360 and MATLAB.

Technical Theatre Work, South Side High School's Drama Guild

September 2021 - June 2025

- Supervisory Scenic Constructor & Stage Manager for ten school productions. Supervised and coordinated a team of students to construct and rig stage scenery by interpreting production draftings, specifications, and drawings. Created multiple blocking sheets for scenes, documented staging throughout the production, and managed project deadlines.

SKILLS

AutoCAD, Revit, SolidWorks, Autodesk Fusion360, Python, Excel, C, MATLAB, Scenic Carpentry, Rigging, & Drafting

AWARDS, HONORS AND LEADERSHIP

Dean's List and Semester Honors, Purdue University

August 2025 - Present

Laurel Award, South Side High School's Highest Honor, Awarded at Graduation

June 2025

Larry Waxman Art Changes Lives Scholarship, Awarded based on innovative pursuit of arts in engineering

June 2025

All-State Musician, New York State School Music Association

December 2024