

Benjamin Viner

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EDUCATION

- **Rensselaer Polytechnic Institute - Class of 2024** Troy, NY
B.S. in Aerospace and Mechanical Engineering; GPA: 3.76/4.00 *August 2020 - May 2024*
Courses: Aerospace Structures, Mechanical Design, Materials Science, Heat Transfer, Control Systems, Fluid Mechanics, Aerodynamics
Awards and Recognitions: Dean's Honor List & Rensselaer Leadership Award (Every Semester: Fall 2020 - Fall 2022)

RELEVANT EXPERIENCE

- **Navy Federal Credit Union** Winchester, VA
Facilities & Development Engineering Summer Intern *May 2022 - August 2022*
 - Maximized ROI for an air conditioning system designed to accommodate a 100,000 sq.ft. workplace.
 - Applied fluid and heat transfer models to increase the temperature efficiency of a server room by 15%.
 - Utilized woodworking and machining techniques to build a 200 sq.ft. commercial kitchen.
- **Rensselaer Polytechnic Institute - Core Engineering** Troy, NY
Undergraduate Teaching Assistant *January 2021 - December 2022*
 - Trained 300+ university students by delivering examples, troubleshooting errors, and mentoring students in a 1-on-1 fashion.
 - Created 50+ CAD models, assemblies, and drafts suitable for manufacturing using Siemens NX and SolidWorks.
- **Independent School of Winchester** Winchester, VA
Theater Acoustics Consultant *May 2022 - Present*
 - Evaluated an existing space and increased a theater's speech intelligibility by 20%.
 - Constructed over 500 sq.ft. of variable acoustic panels to optimize acoustic response for multiple uses.
 - Successfully converted a 2,000 sq.ft. firehouse garage bay into a functional and intelligible theater space.

LEADERSHIP EXPERIENCES

- **Engineering Ambassadors Network** Rensselaer Polytechnic Institute, Troy, NY
School Visit Coordinator *April 2022 - Present*
 - Coordinated with faculty from over 20 K-12 schools and STEM organizations to introduce 2300+ students to STEM careers.
 - Attended 3 Engineering Ambassadors training and leadership conferences to collaborate with engineering students from across the country about creating a more represented environment of engineers.
 - Organized, oversaw, and enforced responsibilities for 50+ active members within the organization.
- *General Body Member* *March 2021 - Present*
 - Created, revised, and delivered 12 interactive STEM-related presentations to 400+ students in underprivileged communities.
 - Collaborated with faculty and other Engineering Ambassadors from 36 universities to create presentations for a broad range of students to inspire them in a STEM-related field.
- **Rensselaer Student Government** Rensselaer Union, Troy, NY
Independent Senator & Academic Affairs Committee Chairperson *March 2022 - Present*
 - Represented 7000+ graduate and undergraduate students to advocate academic needs to university leadership.
 - Led 3+ projects that encourage diversity, equity, and inclusion in an academic setting and communication between students, professors, and recruiters.
 - Collaborated with academic administration, including school deans and the provost, to revise 2 academic policies.
- *Class of 2024 Vice President* *March 2021 - March 2022*
 - Encouraged success for 1500+ members of the Class of 2024 by organizing and executing 10+ professional/social events.
 - Presented to institute administration at 2 town halls and worked with 4 administrative departments to improve overall student life.

SKILLS AND PROJECTS

- **Software:** Siemens NX, SolidWorks, MATLAB, Python, Microsoft Office
- **Laboratory:** Aerospace Structures Lab, Mechanical Systems Lab, Sonics Research Lab
- **Projects:** Theater Acoustics Redesign, Electronic Posture Chair, Psycho-acoustical Testing Environment
- **Research:** Three-Dimensional Separation Over Three-Dimensional Wings at a Moderate Reynolds Number