

Sidney Moyer

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EDUCATION

Brown University, Sc.B. Mechanical Engineering

Relevant Courses: Mechanics of Solids and Structures, Electricity and Magnetism, Electrical Circuits and Signals, Thermodynamics, Applied Partial and Ordinary Differential Equations

GPA: 3.45

High School, St. Petersburg High School

- Salutatorian of the International Baccalaureate program
- IB Higher Level Courses (College Level): Physics, Math, English

St. Petersburg, FL | **Class of 2023**

ENGINEERING EXPERIENCE

Los Alamos National Laboratory, Detonation Science and Technology Student

Los Alamos, NM | June 2025 - July 2025

- Worked on the Pulse Power team within the Weapon Stockpile Modernization Division to study and develop detonators in the nuclear stockpile
- Helped prepare for large test at Sandia National Laboratory, calibrating Rogowski coils on printed circuit boards, and researching firing configurations to be used in a fragmentation study
- Used Creo Parametric 3D Modeling Software to design EFI cable mount for goniometers, and three-electrode triggered spark gap tester housing, prototyping with Raise 3D E2 FDM printer
- Built and tested a research CDU and used it to fire EFI and EBW detonators

Suffolk Construction, Construction Project Management Intern

St. Petersburg, FL | June 2024 - August 2024

- Managed project progress using Procore, Bluebeam, and PlanIT, managing RFIs, NFs, submittals, and change orders
- Observed budgeting meetings, gaining valuable insights into the financial planning and cost management of this project
- Analyzed building drawings to resolve field issues and to apply construction mechanics principles, attended critical path meetings to analyze the punch list and determine if the project was still following the timeline
- Completed my OSHA-10 Certification

Brown Society of Women Engineers

Providence, RI | October 2024 – Present

- Serve on the Executive board as Internal Communications Chair, previously as Co-chair of Outreach
- Manage communications between SWE Executive Board and the General body through weekly emails containing relevant information about upcoming events, prospective internships, and society meetings
- Maintain organization within the Executive Board via scheduling and calendar management of all other positions
- Collaborated with two other chairs of outreach to promote Women in Engineering and increase visibility
- Facilitated partnership with local Girl Scouts to encourage young women to pursue STEM studies
- Organized and participated in various engineering-related workshops

LEADERSHIP EXPERIENCE

Brown University Varsity Sailing Team, Freshman Captain

Providence, RI | December 2023 – December 2024

- Collaborate with other Freshman Captain and Coach to find housing and day activities for visiting recruits
- Serve as a leader for the current first-year class

Pat Tillman Foundation, Emerging Leaders Program

Providence, RI | October 2024 – December 2024

- Nominated by Sailing Head Coach to Participate in the Pat Tillman Student-Athlete Emerging Leaders program
- Learn from Tillman Scholars and collaborate with other student athletes in leadership development activities to become a more decisive, inclusive, and passionate leader

TEAMWORK EXPERIENCES

Brown University Varsity Sailing Team, Student-Athlete

Providence, RI | August 2023 - Present

- Dedicate 30 hours/week to practice, lift, team meetings, and competition
- Hands-on fluid dynamics learning through understanding how to optimize the wind and water flow across boat

St. Petersburg Yacht Club, Sailing Coach

St. Petersburg, FL | June 2021 – August 2023

- Coached both beginner and intermediate summer camps, as well as the junior race team
- Taught kids aged 5-14 how to sail, and to improve their pre-existing abilities
- Focused on age-appropriate fundamentals of aerodynamics and meteorology

SKILLS

Technical Skills: Proficient in ProCore, PlanIT, Bluebeam, Creo, and Raise3D Idea Maker, with experience in MATLAB, SolidWorks, Arduino, and Fusion 360. Machine shop experience in wood, metal, laser cutting, 3D printing, and soldering. Excellent written and verbal communication skills.