

Charlie Apolinsky

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Education

Bowdoin College, Brunswick, ME

Expected Graduation: June 2026

Bachelors of Arts, Double Major in Computer Science and Physics

GPA: 4.00/4.00

Relevant Coursework: Algorithms, Data Structures, Software Engineering, Mobile Software Development, Computer Graphics, Combinatorial Optimization, Linear Algebra, Differential Equations, Engineering Physics, Methods of Experimental Physics.

Awards & Honors: 2x Dean's List, 2x Sarah and James Bowdoin Scholar Book Award (Awarded to students who earn a 4.00 GPA), Faculty Scholar (Scholarship to encourage research, independent study, and career related development).

Concord Academy, Concord, MA

Graduated: June 2022

Activities and Leadership: Head of Robotics Club, Head of Science Club, Residential Administrator, Disciplinary Committee member, Head Tour Guide, Math Club member, Varsity Soccer (captain Senior), Varsity Sailing (captain Junior, Senior), Varsity Squash.

Awards & Honors: Catalyst Competition Startup Pitch Winner, AP Merit Scholar.

Work Experience

Maritime Applied Physics Corporation, Brunswick, ME

May 2023 - August 2023

Level 2 Engineering Intern

- Designed and modeled components using SolidWorks for a variety of projects including the Liberty Lifter for the Defense Advanced Research Projects Agency (DARPA) and Naval Destroyers.
- Practiced skills of quality assurance and Microsoft excel through solely managing the organization and creation of 200+ page Government Source Inspections packages.
- Worked in the assembly shop and developed a variety of hands-on technical skills.

Universität Konstanz Cyber Physical Group, Konstanz, Germany

May 2024 - August 2024

Research Intern for Swarm Robotics Project

- Contributed to a PhD project on the development of autonomous sailboat robots to enhance limnological and oceanographic survey techniques.
- Conceived and implemented C++ algorithms for autonomous sailboat navigation, utilized JavaScript, HTML & CSS development skills to create a web application for the transmission and displaying of data from the robots, and oversaw hardware integration.
- Developed research skills through reading scientific literature, expanded knowledge on swarm robotics and collective behavior through attending advanced lectures, and consulted and guided the project trajectory.

Bowdoin College Economics Department, Brunswick, ME

August 2023 - June 2024

Economics Learning Assistant and Grader

- Organized and led weekly tutoring sessions in Microeconomics for a regular group of 10+ attendees; worked with struggling students and provided personal one-on-one instruction.
- Consulted with the Professor to refine the curriculum based on student feedback.
- Handpicked for the role based on my demonstrated passion for economics, curiosity in the classroom, and ability to clearly communicate complex concepts.

Leadership and Activities

Brunswick High School Transition Program, Brunswick, ME

August 2023 - Present

Mentor and Primary Organizer

- Launched a new program to connect High School students with developmental disabilities with college volunteers to form meaningful friendships.
- Coordinated community events, scheduled weekly trips to the school, and volunteered as a mentor for the students and expanded club participation to 10+ members.

Concord Academy Robotics Club, Concord, MA

September 2019 - May 2022

Co-founder and Co-Head

- Fundraised over \$5,000 to create a new club where students of all backgrounds could learn to build and program Vex robots.
- Lead weekly lessons on coding (C++ and Vexcode) and design, brought in experts to speak about the field of robotics, and increased club membership to 15+ through creative monthly competitions.

Relevant Skills

Technical Skills: *Advanced proficiency* in Java, Python, HTML, CSS, GitHub, Solidworks, Excel, Powerpoint, Google Suite
Moderate proficiency in JavaScript, MongoDB, SQL, Spring, Angular, Photoshop, and R