DILLON O'MALLEY

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EDUCATION

Northeastern University, Boston, MA **Expected Graduation:** May 2026
Candidate for Bachelor of Science in Mechanical Engineering and Physics **GPA:** 3.94
Honors: Dean's Scholarship, Dean's List for all semesters
Relevant Courses: Fluid Mechanics, Modern Physics, Dynamics, Engineering Database Systems, Introduction to Materials Science, Statics, Thermodynamics, Differential Equations and Linear Algebra, Calculus III
Activities: Summer In: Seattle (Aerospace Residency), Alliance of Civically Engaged Students (ACES), Northeastern History Association, RASC-AL 2023

Horace Greeley High School, Chappaqua, NY **Graduation:** June 2022
Honors and Activities: Summa Cum Laude, National Merit Commendation, Stage Band, Ski Team **GPA:** 4.0

SKILLS

Computer Applications: Solidworks, MATLAB
Programming: Python

PROFESSIONAL EXPERIENCE

Clarapath, Hawthorne, NY January 2024 - June 2024
Electromechanical Engineer Co-op
- Designed custom test fixtures and go/no-go inserts to assist in testing and inspection
- Diagnosed and fixed errors in freshly manufactured subassemblies
- Developed 3D models and 2D drawings using Solidworks

Boston Building Resources, Roxbury, MA September 2022-July 2023
Volunteer
- Processed donated materials in a charitable non-profit consumer co-op building materials and reuse center
- Gained practical knowledge in construction materials and components via processing and shelving donations

Bedford Playhouse Clive Davis Arts Center, Bedford, NY Spring 2022
Business Internship
- Interfaced with and professionally reached out to new and existing donating local businesses to fundraise
- Gained insight into how a non-profit operates financially as a 501(c)(3)

Bedford Playhouse Clive Davis Arts Center, Bedford, NY September 2021-August 2022
Concession Stand/Ticket Booth
- Operated in a fast-paced team environment serving concessions to customers
- Handled the operation and maintenance of various machinery and IT/inventory management systems
- Communicated effectively with theater patrons to translates their requests into a POS system

PROJECTS

Test Fixture for Claw Gantry *Clarapath* Spring 2024
- Produced rapid prototypes using laser cutting and 3D printing to validate design
- Utilized Solidworks to model 24 unique subcomponents in the final assembly
- Integrated ergonomic principles to streamline design for error prevention
- Worked with machinist to manufacture custom aluminum components

Electrically Heated Glove *Cornerstone of Engineering II* Spring 2023
- Utilized electrical engineering principles to generate heat through electrical resistance
- Collaborated with a team of four to optimize power and efficiency in the glove given necessarily limited space
- Experimented with different wire materials to maximize the heat output of the wire
- Utilized SolidWorks to create a case for the Arduino components

INTERESTS

Hiking, skiing, reading nonfiction and playing the guitar