

Abigail Nicholas

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Education

Northeastern University | Boston, MA

May 2026

Candidate for Bachelor of Science in Mechanical Engineering & Design

GPA: 3.74

- Honors: Dean's List (2022, 2023), Connections Scholarship Recipient
- Design Courses: Design: Processes & Practices, Design Perspectives, Experience and Interaction, Color and Composition, Modern Art History
- Engineering Courses: Mechanics of Materials, Thermodynamics, Statics, Differential Equations and Linear Algebra, Calculus II-III, Physics I-II, Cornerstone of Engineering I-II
- Activities: Society of Women Engineers, Acoustical Society of America, Alliance of Civically Engaged Students

Newton High School | Newton, NJ

June 2022

- Honors: Valedictorian, Rensselaer Medal, University of Rochester Xerox Award, National Honor Society, Spanish Honor Society
- Activities: STEM Academy (Student Coordinator), Technical Theatre (Stage Manager), Field Hockey (Varsity Captain, Coaches' Award Recipient 2021, 2022)

Work Experience

Sound Technician | Newton, NJ

Dec 2021 - Present

- Customize sound arrangement, patching venue equipment to facilitate a successful performance
- Operate Soundcraft Si Impact 40-channel Digital Mixer for 3+ annual events held at Newton High School

Math Tutor | Newton, NJ & Boston, MA

Dec 2019 - Present

- Conduct weekly in-person and virtual tutoring sessions, designing lessons to reinforce math with students K-12

Pool Crew Member | Lake Mohawk Country Club | Sparta, NJ

May - Aug 2023

- Processed concession stand transactions using Jonas Club Software, aiding an efficient kitchen atmosphere
- Supported a safe and respectful environment for members and coworkers

Academic Projects

Dream Capture | Design: Processes & Practices

Fall 2023

- Designed an experiential intervention in collaboration with a team of three to improve the morning routine
- Developed an app prototype in Figma, navigating a dream commission service to connect users with artists

Vermicomposting Museum Exhibit | Cornerstone of Engineering I-II

Fall 2022

- Developed an educational museum exhibit addressing a sustainability topic, the vermicomposting process, appealing to a young audience
- Fabricated device components in SolidWorks and AutoCAD and integrated 360 servo motor, arcade buttons, open circuits, and LED strip using Arduino
- Applied value sensitive design by adding graphic, auditory, and tangible elements, establishing a sensory-appealing, accessible, and bilingual experience

Community Service

Tutor Coordinator | EVkids | Boston, MA

Sep 2022 - Present

- Organize tutor recruitment and community events, fostering community within the organization
 - 2023 Expanding Horizons Gala - facilitated check-in and auction, achieving a positive guest experience
- Meet weekly with a student to review academic progress and to develop an interpersonal relationship

Active Blood Donor

Sep 2019 - Present

Menstrual Hygiene Supply Drive | Project Self-Sufficiency | Newton, NJ

May 2021

- Coordinated a fundraising drive, resulting in the collection of over 6000 menstrual hygiene products

Skills & Interests

Applications AutoCAD, SOLIDWORKS, Arduino, Adobe Photoshop, Figma, Microsoft Office, Google Suite

Programming C++, MATLAB, Python, HTML

Interests Multimedia painter, amateur home cook, live music enthusiast, avid indoor cyclist