

# William Natcharian

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## EDUCATION

### Cornell University

*Bachelor of Engineering, Mechanical Engineering Major*

**May, 2026**

*Ithaca, NY*

- **GPA: 3.6/4.0;** Dean's List, Fall 2022, Fall 2023, and Spring 2025
- Concentration in Environmental Engineering; Active member of the Armenian Student Organization (ASO); Treasurer of the Cornell Mafia Club.

## WORK EXPERIENCE

### ID Tech Camps

**Jun. 2023 – Aug. 2024**

*Lead Instructor | Aug. 2023 - Aug. 2024*

*Villanova, PA*

- ID Tech is a 25-year-old STEM enrichment program for kids ages 7-17 and has over 650,000 alumni!
- As the Lead Instructor, I led a team of over 15 instructors to facilitate an engaging and academically rigorous environment for 80-100 students each week. In my classes I taught my students to use Vex Robotics, C++, Python, Unreal Engine, and Scratch Coding.

*Robotics Instructor | Jun. 2023 - Aug. 2023*

- Prior to my promotion to Lead Instructor I worked as a regular instructor teaching BattleBots with Vex.

### Cornell University AutoBoat Project Team

**Oct. 2022 – Sep. 2024**

*Hardware Engineer*

*Ithaca, NY*

- AutoBoat is one of Cornell University's 30+ project teams which is tasked with designing an autonomous boat capable of decision-making and complex path planning using computer vision. We compete in the annual RoboBoat competition, run by Robonation which is a STEM organization reaching over 250,000 students.
- As part of the Hardware Engineering subteam, I designed a system of three waterproof hatches and latches on the main hull of the trimaran to allow for easy access to the boat's electronics. Additionally, I worked with the rest of my team to intricately model our boat's trimaran design in Fusion 360 to allow for precise Ansys heat analysis of each component. Over the course of four semesters I aided in manufacturing the three separate hulls for our trimaran design using complex resin and molding techniques.
- Here is a link to our [website](#).

### Toni Morrison Dining

**Sep. 2022 – Present**

*Food Service Associate*

*Ithaca, NY*

- As a Food Service Associate, I am responsible for preparing, presenting, and serving food at Toni Morrison Dining Hall. I maintain each station's cleanliness and organization according to religious sanitation standards.

### Goodwill Industries

**May. 2022 – Aug. 2022**

*Retail Sales Associate*

*Axon, CT*

- As a retail sales associate, I stocked, organized, and cleaned the multiple sections of our storage department.
- In addition, I worked as a cashier at this location, building excellent customer service skills.

### Quantitative Resource Center at Loomis Chaffee

**Sep. 2020 – May. 2022**

*Math and Science Tutor*

*Windsor, CT*

- As a QRC Tutor, I helped high school students with math and science problems of all technical levels.

## CERTIFICATIONS, SKILLS & INTERESTS

- **Certifications:** First Aid, CPR, and AED trained for adults and children.
- **Technologies:** AutoCAD, Fusion 360, Git, MATLAB, Ansys, Julia, Java, Python, Vex Robotics.
- **Skills:** Engineering Analysis and Design, Robotics, Calculus, Statistics, Differential Equations.
- **Interests:** Rock Climbing, Reading, Hiking, Sketching, Gardening, Poker, and Music.