

Justin Steenstra

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Education

Northeastern University, Boston, MA

Candidate for Bachelor of Science in Mechanical Engineering

Deans list: Fall 2022, Summer 2023

Relevant Courses: Thermodynamics, Mechanics of Materials, Statics, Differential Equations, Calc 1-3, Physics 1-2, Full Cornerstone Engineering

Clubs: Aerospace NU

Study Abroad: Northeastern University London

Present - January 2025

GPA: 3.59

January - April 2023

Barnstable High School, Barnstable, MA

Awards: AP Scholar with Distinction, Top 10% Class Standing

Clubs: CrossCountry (Captain Senior year), Chinese National Honors Society (President Senior year), Math National Honors Society (Treasurer Senior year)

Graduated June 2022

Skills

Applications: SolidWorks, AutoCAD, Arduino, Excel, MATLAB

Programming: C++, Java, Python

Fabrication: 3-D printing, laser cutting, power tools

Projects

Unibots Robotics

March 2023

NU London Robotics

- Designed and assembled an autonomous robot proof of concept and prototype with a team of 4 within 3 weeks to compete at Unibots UK
- Created a battery holder in Fusion 360 and built using 3-D printing to safely house an 11-volt lithium-polymer battery within the robot
- Winner of the University of Cambridge Unibots UK and awarded £500

Museum Exhibit Game

October - December 2022

Full Cornerstone of Engineering

- Led a team of 4 to design and create an interactive museum exhibit game prototype for under \$40 to be presented in an engineering expo to teach students and faculty about resilient engineering
- Soldered wires to LEDs and Buttons and connected them to an Arduino board for users to be able to interact with the museum exhibit
- Integrated game display images with corresponding buttons and LEDs within MATLAB for users to have a visually interactive experience to further engage in learning
- Created a 3-month Gantt chart for the project in Excel to meet project deadlines and delegate project tasks

Pasta Bridges

September - October 2022

Full Cornerstone of Engineering

- Collaborated with a team of 4 to construct a rounded and segmented arch pasta bridge under 120 grams that supported 5 and 7 pounds, respectively.
- Created AutoCAD sketches for the segmented and rounded arch bridges to reference during construction which facilitated the construction process

Work Experience

Matakeese Warf, Barnstable, MA

July - August 2022

Dishwasher

- Maintained the cleanliness and upkeep of the kitchen by disposing of garbage, washing dishes, restocking, and organizing to pass health inspections for the restaurant to stay in business
- Prepared shellfish, asparagus, and green beans according to Barnstable food safety guidelines preventing cross-contamination so customers would come back to the restaurant

Interests

- Likes to work on cars replacing brake pads, rotors, emergency brakes, and brake fluid lines.
- Enjoys traveling at every opportunity to experience new things and interact with new people and cultures