

# Ethan Rowe

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Availability: January 2021-April 2021

## Education

**Wentworth Institute of Technology**, Boston, Massachusetts      Expected Graduation August 2022

Bachelor of Science in Interdisciplinary Engineering Concentration in Mechanical Engineering

Minor in Manufacturing Engineering

Minor in Physics

- Relevant Coursework: Manufacturing 1000, Computer Aided Design/Computer Aided Manufacturing, Engineering Thermodynamics, Engineering Fluid Mechanics, Engineering Graphics, Calculus 3, Differential Equations, Linear Algebra

**Simsbury High School**, Simsbury, Connecticut

Graduated June 2018

High School Diploma - GPA: 3.4

- 4 years of Project Lead the Way class experience. Classes cover engineering design process, strength of structure and materials, circuit design and real-world applications of engineering concepts
- AP Seminar and AP Research- Open ended, research-based classes, AP Physics, Calculus

## Skills

- Advanced: Engineering Design Process, MS PowerPoint, MS Excel
- Above Average: Blueprint Reading, 3-Axis Milling Machines, Casting, Material Testing (Instron), SolidWorks/Autodesk
- Intermediate: G Code, Java Programming, MATLAB
- Competent: Python

## Employment History

**PW Power Systems LLC**, Glastonbury, Connecticut

Procurement and Parts Analysis Engineering Intern

May 2020 – August 2020

Developed tracking tools to compare historical quote data with newly received quotes from multiple manufacturers

- Identified long-lead-time parts in terms of manufacturability, tooling, and material cost in order to prioritize part procurement.

Manufacturing/Industrial Engineering Intern

May 2019 – August 2019

- Facilitated the industrialization of one of the product lines, by analyzing quality requirements from drawings, and QAD documents
- Created process improvement documentation to better support operators in the assembly, maintenance, or tracking of products.
- Analyzed purchasing data and inventory to prepare reports highlighting risks to delivery dates to critical, long-lead parts

## Projects

- Development of underwater manipulator for Underwater robot. Used Solidworks to prototype manipulator. Major focus was on ease of use as well as waterproofing the electrical components. Used CamWorks to run milling operations for the final parts. (2019-Present)
- Designed modular Chassis system for Underwater robot. Worked with an interdisciplinary team on SolidWorks to design a modular chassis. Used CNC machines to cut aluminum, and acrylic. (2019-2020)
- Modeled, then fabricated an electric go kart. Raced for the first time in the electrathon race at Limerock park. (2018)
- Participated in First Robotics on team 3464, first year helped construct robot that made it to the world championships. Second year lead the team as one of the captains, helped fundraise \$7,000 during the season. (2018)

## Memberships

- IEEE- Institute of Electrical and Electronics Engineering (2018-Present)