

William deLone Hutter

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EDUCATION

Cornell University, College of Engineering, Ithaca, NY

Expected May 2027

Bachelor of Science in Mechanical Engineering, Minor in Materials Science Engineering (GPA: 3.84)

Roxbury Latin School, West Roxbury, MA

Jun 2023

Magna Cum Laude; GPA: 3.9; SAT 1550

Advance Placement Coursework: *BC Calculus (5) • Computer Science A (5) • Physics I (5)*

ENGINEERING EXPERIENCE

Cornell Racing FSAE Team, *Accumulator Subteam*, Ithaca, NY

Feb 2024 – Present

- Collaborate with a sub team of 10 to design and build an electric race car for national Formula SAE competition
- Design protective sheet metal structure and mounting for 100lb battery using CAD, machining, and welding
- Follow careful procedures to assemble 100v pouch cell battery modules and integrate custom BMS child boards
- Analyze structural integrity of mounts with hand calculations and ANSYS software, removing over 1lb of weight
- Develop and implement carbon fiber composite alternatives to sheet metal protective structures for the battery, by performing 3-point bending, dog bone testing at 60°C, and perimeter shear testing on 15 test panels
- Communicate and present progress during weekly meetings and a yearly alumni design review

GI Windows, *Research and Development Intern*, Westwood, MA

May – Jul 2024

- Prototyped device to stabilize an enterotomy for anastomosis alongside a team of six engineers
- Modeled dozens of 3D printed silicone injection molds on SolidWorks, and created over 50 prototypes
- Developed process to shape-set and laser weld nitinol rings, tested process by making 300 rings
- Met with manufacturers to scale nitinol ring manufacturing process up for clinical trials
- Assisted surgeons in deploying prototypes on pig tissue while documenting and analyzing their feedback
- Presented findings at weekly meetings and wrote IP disclosures for potential solutions

Engineered Remote Controlled Ornithopter, *Independent Senior Project*, Roxbury Latin

Feb – Apr 2023

- Designed, built, and tested ornithopter from scratch, working 40-hour weeks for three months with a partner
- Budgeted and purchased materials, reevaluating and selecting more effective materials throughout process
- Created 3D simulation using Onshape, used 3D printing, laser cutting, and machining techniques to construct
- Articulated findings and answered questions in front of school body in 8 sessions of 20+ students, teachers, and administrators in each session

LEADERSHIP EXPERIENCE

Habitat for Humanity Chapter Leader, *Roxbury Latin*, West Roxbury, MA

Jan 2022 – Jun 2023

- Led 35-person chapter on builds to frame doors, lay drywall, and spray insulation for housing insecure families
- Organized and ran fundraising events including a 300-person basketball tournament which raised \$1,500

Varsity Wrestling Captain, *Roxbury Latin*, West Roxbury, MA

Nov 2021 – Mar 2023

- Drove 50-person team junior and senior year to compete in local, regional, and national competitions

STEM Camp Teacher, *Circuit Labs*, Somerville, MA

Jul – Aug 2021

- Lead class in electronic circuits, robotics, Arduino, and Scratch to groups of 20 K-8 grade students

SPECIALIZED SKILLS

Technical: CAD, GD&T, Inventor, SolidWorks, Fusion, ANSYS, MATLAB, Statics, Dynamics, Composites, CLT, Altium, microcontrollers, lathe, mill, laser welding, Python, C#, Java,

ACTIVITIES/INTERESTS

Cornell Maker Club: Use workspaces with 3D printers and laser cutters to complete personal engineering projects
Kiteboarding, Crossword Puzzles, Snowboarding, Weightlifting, Tennis, Pickleball