

362 Memorial Drive  
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# Ethan Weber

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## EDUCATION

### Massachusetts Institute of Technology (MIT)

*Candidate for Bachelor of Science in Electrical Engineering and Computer Science • GPA: 5.0/5.0*

Cambridge, MA

June 2020

### New Holstein High School

• GPA: 4.0/4.0 • Rank: 1/90

New Holstein, WI

Sep 2012 – May 2016

### Relevant Coursework

• Classical Mechanics • Multivariable Calculus • Intro to Solid State Chemistry • Intro to Nanoscience and Technology  
• Intro to Electrical and Computer Engineering • Deep Learning for Self-Driving Cars • Intro to C and C++ • Brief Intro to Python

## EXPERIENCE

### Robotics Research at the MIT CSAIL

*Undergraduate Researcher in the Model-Based Embedded and Robotics Systems Group*

Cambridge, MA

Sep 2016 – Current

- Working on using a land rover and a quadcopter in cooperation to navigate an area and perform tasks autonomously

### Advanced Placement Program at Carnegie Mellon

Pittsburgh, PA

*Summer Student*

Jun – Aug 2015

- Achieved A in both “Introduction to Electrical and Computer Engineering” and “Introduction to Nanoscience and Technology”

### DARPA (Defense Advanced Research Projects Agency) Project

Arlington County, VA

*Project Participant*

Jul 2014

- Worked with DARPA and Booz Allen Hamilton employees to create an EMG (electromyography) display for the annual DARPA Family Day

### FIRST Robotics Competition

Fond du Lac, WI

*Team Captain*

Sep 2013 – Sep 2016

- Focused on software and electrical aspects
- Drove robots at competition

### Hackathon at University of Michigan--Ann Arbor

Ann Arbor, MI

*Teammate*

Sep 2015

- Created a team with college students to create a project to help the visually impaired through object recognition and vibration feedback
- Won “Best Overall Use of Microsoft Technology” award

### Engineering Innovation

New Holstein, WI

*Maker Enthusiast*

2012 – Current

- Built a hovercraft, a crane, catapults, driving robots, a quadcopter, etc. (see <https://ethanweberblog.wordpress.com/> for details)

## LEADERSHIP

### MakeMIT

Cambridge, MA

*Event Organizer*

Sep 2016 – Current

- Organizing the MakeMIT hardware hackathon with a committee to promote the maker culture in college students

### National Honor Society

New Holstein, WI

*President (Senior Year)*

Jan 2013 – May 2016

- Led meetings and organized a food drive

### Lutheran Youth Fellowship

New Holstein, WI

*President*

Sep 2013 – May 2016

- Volunteered at an AIDS center in San Antonio, Texas as Sophomore

### SYNERGY - New Holstein Science Podcast

New Holstein, WI

*Co-Founder*

Jan 2016 – May 2016

- Co-founded a local science podcast, called “SYNERGY - NH Science Podcast,” to increase awareness about science-related topics

## AWARDS

- **FIRST Robotics Dean’s List Finalist:** Received a prestigious award for leadership, passion, and expertise in robotics
- **Math and Science Excellence Awards:** Voted top math and science student by my high school teachers
- **“Best Overall Use of Microsoft Technology”:** Awarded by Microsoft at the University of Michigan’s Hackathon
- **Forensics Gold Medalist:** Wrote, delivered, and became a gold medalist with a 4-minute speech about cyborg technology

## SKILLS

**Computer:** Java, Python, Arduino, Raspberry Pi, C++, C, C#, Javascript, Processing, HTML, CSS, PTC Creo CAD

**Activities:** MakeMIT Committee, Model-based Embedded and Robotic Systems (MERS) UROP, Soccer, Zeta Psi Fraternity

**College Acceptances:** MIT, Stanford, CMU School of Computer Science, Cornell, UW Madison, UI Urbana-Champaign