

Ethan LaBelle

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EDUCATION

Massachusetts Institute of Technology (MIT), Cambridge, MA 2019-Present

Candidate for Bachelor of Science in Computer Science and Engineering GPA: 4.8/5.0

- Relevant Coursework: Linear Algebra, Multivariable Calculus, Interconnected Embedded Systems, Introduction to Machine Learning, Discrete Math, Fundamentals of Programming, Intro to Computational Thinking and Data Science

Basha High School, Chandler, AZ 2015-2019

- Class Rank: 11/552, SAT: 1570, ACT: 34 GPA: 4.73/4.0
- Relevant Coursework: AP Calculus(5), AP Java(5), Differential Equations, Honors Science Research

PROJECTS/RESEARCH EXPERIENCE

Beavercube Cube Satellite, Department of Aeronautics and Astronautics December 2020-Present

Student Researcher

- Developed software and firmware for onboard flight computer.
- Wrote drivers for I2C and SPI interfacing with satellite peripherals.

MIT Battlecode Programming Competition January 2020, January 2021

Competitor

- Designed and implemented an algorithm to play Battlecode 2020, a turn based strategy game based around resource allocation.

Honors Science Research, Basha High School August 2018- May 2019

Predicting Colony Collapse Disorder (CCD) Using a Convolutional Neural Network (CNN)

- Investigated causes and mechanisms of colony collapse disorder in honey bee populations.
- Examined basic neural network structure and theory.

WORK EXPERIENCE

Amazon Logistics- Tempe, Arizona July 2020- October 2020

Central Operations Associate

- Interpreted information from different sources to determine best course of action to drive delivery success.
- Coordinated rescue support between drivers.
- Communicated with delivery partners ensuring on-time delivery.

Science is Fun- Basha High School August 2018- May 2019

Volunteer Intern

- Presented energy concepts to fourth grade classrooms throughout central Arizona.
- Aided in the research on the impact of STEM education on students' perspectives about careers in STEM.

SKILLS/INTERESTS

- **Programming:** Experienced in Java, Python, C/C++. Familiar with TensorFlow.
- **Language:** Proficient in reading and writing Spanish. Adept verbal skills.
- **Music:** Highly proficient in low brass performance (Bass Trombone, Euphonium, Tuba).
- **DCI:** Two summer tours in the Drum Corps International World Class Circuit. June 2018- August 2018
June 2019 - August 2019