

# Kevin Bradner

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## Education: Case Western Reserve University

School of Engineering, Computer Science

Anticipated Graduation Date (M.S.): May 2019

Current GPA: 3.784

### Notable Coursework:

**Robotics: Modern Robot Programming, Mobile Robotics, Algorithmic Robotics, Robotics II**

**Artificial Intelligence:** Machine Learning, Deep Learning, Artificial Intelligence

**Math:** Calculus I-III, Abstract Linear Algebra, Discrete Mathematics, Probability

**Physics:** Mechanics, Statics, Dynamics, Thermodynamics, Heat and Mass Transfer, Electricity and Magnetism

**Computers / Electronics:** Computer Networks, Algorithms, Data Structures, Databases, Circuits, Logic Design

### Skills:

Programming: C/C++, Java, Python (Proficient); Haskell, MATLAB (Some Experience)

Knowledge Reinforcement Learning topics

Robot Operating System (ROS)

Windows and Linux based operating systems, including Bash shell

### Work Experience:

Robotics Software Engineer, Lonsberry Engineering (½ time)

June 2017 - Present

Summer Robotics Researcher, *Mobile / Dextrous Robotics Lab, CWRU* (½ time)

June 2017 - Present

Teaching Assistant, Intro. To Artificial Intelligence

Oct. 2016-Dec. 2016

Research Associate, *NASA Academy, Marshall Space Flight Center* (Full Time)

June 2016-Aug 2016

Electron Microscopy and X-Ray Simulation with Dr. Jessica Gaskin

Small Satellite Component Mechanical Design with Dr. Peter Jenke

Numerous leadership development talks and trips outside of working hours

Plant Caretaker and Customer Service, *HJ Benken Florist* (30 hours/week)

May 2015 – Aug 2015

Tutor, *Math and Science* (5 hours/week)

Jan 2012 - Aug 2014

Student Assistant, *Cincinnati Public Library* (12 hours/week)

Aug 2013 - Aug 2014

### Extra-Curricular Activities/Community Involvement:

#### Design, Build, Fly! At Case Western Reserve University

- Participate in an annual AIAA competition of the same name
- Work on club projec

#### Boy Scouts of America: Eagle Scout

- Participated in scouting from age 6 to 18.
- Led a group of 60 scouts through regular service projects and campouts.
- Selected to attend National Youth Leadership training in summer of 2010.

#### Junior Engineering Technical Society (JETS): Team Captain

- JETS is a national non profit organization dedicated to promoting engineering and technology careers.
- Team scored in 1<sup>st</sup> in state, 3<sup>rd</sup> in nation in 2012 for our division, served as team captain

#### Cincinnati Public Library

- Volunteer, Summers of 2008, 2009

### Awards & Recognition

- National Merit Scholar
- Case Leadership Scholarship
- Case Western Reserve University Michelson-Morley Merit Scholarship
- Case Western Reserve University Junior-Senior Scholarships for Academic Achievement
- Dean's High Honors
- Madeira High School Valedictorian