

Kevin Bradner

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Education: Case Western Reserve University

School of Engineering, Computer Science

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

GPA: 3.784

Notable Coursework:

Robotics: Modern Robot Programming, Mobile Robotics, Probabilistic Robotics, Robotics Research Survey
Artificial Intelligence: Machine Learning, Deep Learning, Artificial Intelligence I & II, Computer Vision
Math: Calculus I-III, Abstract Linear Algebra, Discrete Mathematics, Probability, Causal Inference
Physics: Mechanics, Statics, Dynamics, Thermodynamics, Heat and Mass Transfer, Electricity and Magnetism
Computers / Electronics: Computer Networks, Algorithms, Databases, Circuits, Operating Systems

Skills:

Programming: C++, Python (Proficient); Java, Haskell, MATLAB (Some Experience)
Research: Reinforcement Learning with Applications in Robotics
Robot Operating System (ROS)
Windows and Linux based operating systems, including Bash shell

Work Experience:

Robotic Autonomy Researcher, NASA Satellite Servicing Project	Jan 2018 - Present
Robotics Software Engineer, Lonsberry Engineering (Full Time)	June 2017 – Dec. 2017
Leading Software Engineering for the Robotic Welder Planning Project	
Summer Robotics Researcher, <i>Mobile / Dextrous Robotics Lab, CWRU</i> (½ Time)	June 2017 – Present
Robotic Interaction / Haptics Development Project with Baxter Robot and Unity	
Teaching Assistant, Intro. To Artificial Intelligence	Oct. 2016-Dec. 2016
Research Associate, <i>NASA Academy, Marshall Space Flight Center</i> (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, <i>HJ Benken Florist</i> (30 hours/week)	May 2015 – Aug 2015
Tutor, <i>Math and Science</i> (5 hours/week)	Jan 2012 - Aug 2014
Student Assistant, <i>Cincinnati Public Library</i> (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 project

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.

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