

Gabe Hege

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Education	Massachusetts Institute of Technology (MIT) GPA 4.6/5.0 Candidate for B.S. in Electrical Engineering and Computer Science	Cambridge, MA February 2017
Research Experience	MIT Aerospace Controls Lab <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Developed a visualization library that allows for fine control over shape generation and projection onto a surface. The projections were viewable in real life and could be interacted with in real 2d space. MIT Computational Cognitive Science Group <i>Undergraduate Researcher</i> <ul style="list-style-type: none">Implemented and analyzed a bayesian inference model that aggregated test results from multiple sources to find the true answer amongst a group of non-expert participants	Cambridge, MA Jan '16 - Jun '16 Cambridge, MA Aug '13 - Dec '14
Work Experience	Apple Inc <i>Applied Machine Learning (AML) Intern</i> <ul style="list-style-type: none">Analyzed diagnostic logs with a multi-node Hadoop clusterBuilt a reporting feature on the diagnostics web console in AngularJS Apple Inc <i>iOS Diagnostics Engineering Intern</i> <ul style="list-style-type: none">Developed software tools that automate diagnostic tests for iOS devicesDesigned ML models in MATLAB that perform classifications in real timeImplemented a genetic search algorithm to find the optimal diagnostics classifier, improving fault classification accuracy from ~70% accuracy to >90% accuracyIntegrated machine learning models into OS X & iOS applications with Objective-C WiTricity Corporation <i>Research and Development Intern</i> <ul style="list-style-type: none">Developed 3-axis motor control software to perform automated testing protocols on wireless charging electronic devices using LabVIEW and Python to interface with existing lab test equipment NAVSEA: Controls & Artificial Intelligence Systems Lab <i>Engineering Intern</i> <ul style="list-style-type: none">Developed a Robotic Control system for Parrot A.R. Drone and IRobot in MATLABDesigned and programmed a controller for a factory machinery test bed in JavaDesigned wireless energy harvesters to power mobile devices	Sunnyvale, CA Jun '16 - Aug '16 Cupertino, CA Jun '15 - Dec '15 Watertown, MA Jun '14 - Aug '14 Philadelphia, PA May '13 - Aug '13 Jun '12 - Aug '12 Jun '10 - Aug '10
Leadership	MIT Undergraduate Energy Club <i>Co-President, Expo Managing Director</i> <ul style="list-style-type: none">Organized 1st Annual Energy Expo and Industrial Dinner series with energy companies Boy Scouts of America (BSA) <i>Eagle Scout, Senior Patrol Leader</i> <ul style="list-style-type: none">Selected into the Order of the Arrow (National Honor Society) Brotherhood MemberDesigned and led a project constructing a scenic outlook at a local park	Sep '12 - Jun '15 Sep '05 - Jun '12
Skills	Software: Python • Java • MATLAB • Objective-C	