

KAYMIE SHIOZAWA

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Portfolio: kaymie.com // US Citizen

Education	Massachusetts Institute of Technology (MIT) <i>Candidate for Bachelor of Science in Mechanical Engineering</i> GPA: 4.8/5.0 Relevant coursework: Manufacturing and Design I/II; Thermodynamics and Fluids I/II; Dynamics and Controls I/II; Materials and Mechanics I/II; Differential Equations; Introduction to Robotics; Product Design (Grad Level)	Cambridge, MA June 2019
Relevant Experience	Lockheed Martin Advanced Technology Center <i>Mechanical/Robotics Intern</i> <ul style="list-style-type: none">• Conducting structural analysis on electronic components to be used in spacecraft• Supporting both software and mechanical teams to prepare a demo with drones and ground robots	Palo Alto, CA June 2018 - Present
	MIT D'Arbelloff Lab <i>Undergraduate Researcher</i> <ul style="list-style-type: none">• Designing and implementing a controls infrastructure for an autonomous excavation robot• Improve current excavation arm through 3D modeling and manufacturing methods• Perform experiments that register forces exerted on the arm during digging while tracking the soil's movement	Cambridge, MA Sep. 2016 - Present
	Haemonetics Corporation <i>Mechanical Design Engineer</i> <ul style="list-style-type: none">• Developed and designed optical and circuit board components for sensors in an effort to improve blood component separation, while working in the blood-lab for testing and characterization• Worked closely with the product development team and gained hands-on experience in rapid prototyping• Collaborated with software, mechanical, and systems engineering teams to explore costs and manufacturability of various sensing techniques• Presented to managers of the project and executive members of the company	Braintree, MA June – Aug. 2017
	CEA-LETI: Embarked Micro Batteries Laboratory <i>Research Engineer</i> <ul style="list-style-type: none">• Determined the properties of micro battery electrolytes through electrical impedance characterization for the fabrication of more efficient batteries• Cooperated with team of five members and communicated in French• Presented findings to lab of 40 people	Grenoble, France June – Aug. 2016
Skills	Languages: French, Japanese, English Software Experience: SolidWorks, MATLAB, Python, Arduino Hardware Experience: Lathe and Mill, Welding, Laser Cutting, Water Jetting, 3D Printing	
Leadership	Pi Tau Sigma: National Mechanical Engineering Honor Society <i>Professional Development Coordinator</i> <ul style="list-style-type: none">• Top 25% of class eligible for membership	Mar. 2018 – Present
	Undergraduate Practice Opportunities Program (UPOP) <ul style="list-style-type: none">• Participated in a professional development program preparing sophomores for success in the workplace• Completed a one-week professional development workshop taught by MIT faculty and industry professionals, which explores topics such as effective communication, foundational decision-making, and teamwork	Oct. 2016 – Sept. 2017
	Japanese Society of Undergraduates <i>Treasurer</i>	Aug. 2016 – Present
	Freshman Pre-Orientation Program: Discover Product Design at MIT <i>Co-coordinator & Mentor</i> <ul style="list-style-type: none">• Mentored incoming students in a weeklong program introducing them to ideation, prototyping, and CAD• Collaborated with MIT faculty to organize the entire program; Corresponded with design firms for tours	Aug. 2015 – 2017
	Japan Karate Association/MIT Shotokan Karate Club <i>President of MIT Club</i>	Aug. 2008 – Present
MIT Activities/ Awards	2.12 Introduction to Robotics <ul style="list-style-type: none">• Designed, fabricated, and controlled a robotic arm and serial elastic actuator to aid hemiplegic patients• Team placed 2nd; Awarded Most Valuable Engineer of the team by peers and professors	Sept. – Dec. 2017
	Manufacturing and Design Robotics Competition <ul style="list-style-type: none">• Placed Top 32/160	Feb. – Apr. 2017
	MIT Autonomous Robotics Competition <i>Mechanical Co-Lead</i> <ul style="list-style-type: none">• Designed mechanisms that consistently completed the task and cooperated with software and electrical leads• Placed 2nd, Won the Two Sigma Prize	Jan. 2016