

KAYMIE SHIOZAWA

kaymies@mit.edu • 617-909-4182 • 410 Memorial Drive Cambridge, MA

US Citizen / Portfolio: kaymie.com

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)	Cambridge, MA June 2019
Teaching	Japan Karate Association/MIT Shotokan Karate Club <i>President of MIT Club</i>	Aug. 2008 – Present
Experience	<u>MIT Medlinks</u> <i>Trained member for mental/physical health</i> <ul style="list-style-type: none">• Health educator for my living group; hold occasional seminars <u>Freshman Pre-Orientation Program: Discover Product Design at MIT</u> <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• Managed a budget of \$7,000; Collaborated with MIT faculty to organize the entire program <u>MakerLodge</u> <i>Mentor</i> <ul style="list-style-type: none">• Mentored freshmen on various manufacturing skills at the first student-run makerspace at MIT Mechanical Engineering Tutor Tutored mechanical engineering classes	Sept. 2015 - Present Aug. 2015 – 2018 Feb. 2017 – May 2017 Sept. – May 2017
	<u>Teaching and Sharing Skills to Enrich Lives (TASSEL Inc.)</u> <i>Teacher</i> <ul style="list-style-type: none">• Taught Cambodian children English via video chat• Initiated a book drive and created audiobooks to aid the children's education	Aug. 2013 – May 2015
Relevant Experience	<u>MIT D'Arbeloff Lab</u> <i>Undergraduate Researcher</i> <ul style="list-style-type: none">• Designing and implementing a controls infrastructure for an autonomous excavation robot• Improved current excavation arm model through 3D modeling and manufacturing methods• Selected as a scholar for SuperUROP, a competitive yearlong advanced research program <u>ISEE, Inc.</u> <i>Mechanical Design Engineer</i> <ul style="list-style-type: none">• Designing hardware components for sensors to be mounted on autonomous vehicles• Developing PID steering and speed control of unconventional autonomous vehicles <u>Lockheed Martin Advanced Technology Center</u> <i>Mechanical Structural/Robotics Engineer</i> <ul style="list-style-type: none">• Developed and modified payload electronics' structural design to ensure successful launch into space• Supported both software and mechanical teams to validate the use of drones and ground robots on a mission• Presented findings to 30+ executives and coworkers	Cambridge, MA Sept. 2017 - Present Cambridge, MA Sept. 2018 - Present Palo Alto, CA June – Aug. 2018
Skills	Languages: French, Japanese, English Software Experience: SolidWorks, MATLAB, Python, Arduino, C++ Hardware Experience: Lathe and Mill, Welding, Laser Cutting, Water Jetting, 3D Printing	
Leadership	<u>Pi Tau Sigma: National Mechanical Engineering Honor Society</u> <i>Professional Development Coordinator</i> <ul style="list-style-type: none">• Top 25% of class eligible for membership• Organized info sessions and student-faculty lunches using a budget of \$10,000+ Undergraduate Practice Opportunities Program (UPOP) <ul style="list-style-type: none">• 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	Mar. 2018 – Present Oct. 2016 – Sept. 2017
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• Awarded Most Valuable Engineer of the team by peers and professors; Team placed 2nd Manufacturing and Design Robotics Competition <ul style="list-style-type: none">• Placed Top 32/160 <u>MIT Autonomous Robotics Competition</u> <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	Sept. – Dec. 2017 Feb. – Apr. 2017 Jan. 2016