

# KAYMIE SHIOZAWA

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<b>Education</b>	<b>Massachusetts Institute of Technology (MIT)</b> <i>Candidate for Master of Science in Mechanical Engineering (PhD Track) GPA: 5.0/5.0</i> <i>Bachelor of Science in Mechanical Engineering, GPA: 4.8/5.0</i>	<b>Cambridge, MA</b> June 2021 June 2019
<b>Work &amp; Research Experience</b>	<b><u>MIT Newman Lab</u></b> <i>Research Assistant</i> <ul style="list-style-type: none"><li>• Designing an adaptive cane that will improve balance in patients; studying human control in balance</li></ul> <b><u>Microsoft Corporation</u></b> <i>Program Manager</i> <ul style="list-style-type: none"><li>• Drove adoption for anomaly detection in Azure (Cloud Service) access management product</li><li>• Organized meetings with key users to create a specification for the product tailored to the users' needs</li><li>• Presented to senior leadership and won best presentation display</li></ul> <b><u>MIT D'Arbeloff Lab</u></b> <i>Undergraduate Researcher</i> <ul style="list-style-type: none"><li>• Employed gaze tracking and machine learning to determine an excavator operator's focus points</li><li>• Designed and manufactured a base, adding a degree of freedom to a robotic excavator</li><li>• Selected as a scholar for <u>SuperUROP</u>, a competitive, yearlong advanced research program</li></ul> <b><u>Pacific Northwest National Laboratory (PNNL)</u></b> (National Laboratory of DOE) <i>Data Scientist</i> <ul style="list-style-type: none"><li>• Contributed to the development of software tool (Python) sizing microgrids to facilitate off the grid operation</li><li>• Submitted paper for publishing</li></ul> <b><u>Lockheed Martin Advanced Technology Center</u></b> <i>Mechanical Structural/Robotics Engineer</i> <ul style="list-style-type: none"><li>• Conducted vibration analysis verifying the integrity of 3 high value PCBs to withstand spacecraft launch</li><li>• Implemented code to remotely control waypoint-navigating robots</li><li>• Presented findings to 30+ executives and coworkers</li></ul> <b><u>Haemonetics Corporation</u></b> (Medical Devices) <i>Mechanical Design Engineer</i> <ul style="list-style-type: none"><li>• Collaborated with software, mechanical, and systems engineering teams to explore costs and manufacturability of different optical sensors to improve blood separation in plasma collection</li><li>• Presented to managers of the project and executive members of the company, as well as 15 coworkers</li></ul>	<b>Cambridge, MA</b> Sept. 2019 – Present <b>Seattle, WA</b> June – Aug. 2019 <b>Cambridge, MA</b> Sept. 2017 – May 2019 <b>Seattle, WA</b> Jan. 2019 <b>Palo Alto, CA</b> June – Aug. 2018 <b>Braintree, MA</b> June – Aug. 2017
<b>Publications</b>	<ul style="list-style-type: none"><li>• Newman, S., Shiozawa, K., Follum, J., Barrett, E., Douville, T., Hardy, T., and Solana, A., 2020, "A Comparison of PV Resource Modeling for Sizing Microgrid Components," Renew. Energy. (PNNL)</li><li>• 1 first-author manuscript in preparation (MIT Newman Lab)</li></ul>	
<b>Leadership</b>	<b>Institute Committee: Community Service Fund Board</b> <ul style="list-style-type: none"><li>• Nominated by the Graduate Student Council; selects charitable organizations that MIT supports financially</li></ul> <b>MIT Mechanical Engineering Diversity, Equity, and Inclusion Working Group</b> <b>Japan Karate Association/MIT Shotokan Karate Club</b> <i>President of MIT Club</i> <b>Pi Tau Sigma: National Mechanical Engineering Honor Society</b> <i>Professional Development Coordinator</i> <ul style="list-style-type: none"><li>• Top 25% of class eligible for membership</li><li>• Organized info sessions and student-faculty lunches using a budget of \$10,000+</li></ul> <b>Freshman Pre-Orientation Program: Discover Product Design at MIT</b> <i>Co-coordinator &amp; Mentor</i> <ul style="list-style-type: none"><li>• Mentored incoming students in a weeklong program introducing them to ideation, prototyping, and CAD</li><li>• Managed a budget of \$7,000; Collaborated with MIT faculty to organize the entire program</li></ul>	Aug. 2020 – Present June 2020 – Present Feb. 2016 – Present Mar. 2018 – May 2019 Aug. 2015 – 2018
<b>Awards/Scholarship</b>	<b>John and Miyoko Davey Foundation Merit Scholarship</b> <ul style="list-style-type: none"><li>• One of 3 awardees for partial tuition coverage of \$20,000</li></ul> <b>2.12 Introduction to Robotics</b> <ul style="list-style-type: none"><li>• Designed, fabricated, and controlled a robotic arm and serial elastic actuator to aid hemiplegic patients</li><li>• Awarded Most Valuable Engineer of the team by peers and professors; Team placed 2<sup>nd</sup></li></ul> <b>Manufacturing and Design Robotics Competition</b> <ul style="list-style-type: none"><li>• Placed Top 32/160</li></ul> <b>MIT Autonomous Robotics Competition</b> <ul style="list-style-type: none"><li>• Placed 2<sup>nd</sup>, Won the Two Sigma Prize</li></ul>	2018 – 2019 Sept. – Dec. 2017 Feb. – Apr. 2017 Jan. 2016