

KAYMIE SHIOZAWA

kaymies@mit.edu

Education	Massachusetts Institute of Technology (MIT) <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>	Cambridge, MA June 2021 June 2019
Work & Research Experience	<u>MIT Newman Lab</u> <i>Research Assistant</i> <ul style="list-style-type: none">• Designing an adaptive cane that will improve balance in patients; studying human control in balance <u>Microsoft Corporation</u> <i>Program Manager</i> <ul style="list-style-type: none">• Drove adoption for anomaly detection in Azure (Cloud Service) access management product• Organized meetings with key users to create a specification for the product tailored to the users' needs• Presented to senior leadership and won best presentation display <u>MIT D'Arbeloff Lab</u> <i>Undergraduate Researcher</i> <ul style="list-style-type: none">• Employed gaze tracking and machine learning to determine an excavator operator's focus points• Designed and manufactured a base, adding a degree of freedom to a robotic excavator• Selected as a scholar for SuperUROP, a competitive, yearlong advanced research program <u>Pacific Northwest National Laboratory (PNNL)</u> (National Laboratory of DOE) <i>Data Scientist</i> <ul style="list-style-type: none">• Contributed to the development of software tool (Python) sizing microgrids to facilitate off the grid operation• Submitted paper for publishing <u>Lockheed Martin Advanced Technology Center</u> <i>Mechanical Structural/Robotics Engineer</i> <ul style="list-style-type: none">• Conducted vibration analysis verifying the integrity of 3 high value PCBs to withstand spacecraft launch• Implemented code to remotely control waypoint-navigating robots• Presented findings to 30+ executives and coworkers <u>Haemonetics Corporation</u> (Medical Devices) <i>Mechanical Design Engineer</i> <ul style="list-style-type: none">• Collaborated with software, mechanical, and systems engineering teams to explore costs and manufacturability of different optical sensors to improve blood separation in plasma collection• Presented to managers of the project and executive members of the company, as well as 15 coworkers	Cambridge, MA Sept. 2019 – Present Seattle, WA June – Aug. 2019 Cambridge, MA Sept. 2017 – May 2019 Seattle, WA Jan. 2019 Palo Alto, CA June – Aug. 2018 Braintree, MA June – Aug. 2017
Publications	<ul style="list-style-type: none">• 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," <i>Renew. Energy</i>. (PNNL)• 1 first-author manuscript in preparation (MIT Newman Lab)	
Leadership/ Mentorship	Institute Committee: Community Service Fund Board <ul style="list-style-type: none">• Nominated by the Graduate Student Council; selects charitable organizations that MIT supports financially MIT Mechanical Engineering Diversity, Equity, and Inclusion Working Group <ul style="list-style-type: none">• President of MIT Club 2.00b Toy Product Design Mentor <ul style="list-style-type: none">• Professional Development Coordinator• Top 25% of class eligible for membership• Organized info sessions and student-faculty lunches using a budget of \$10,000+ Freshman Pre-Orientation Program: Discover Product Design at MIT <ul style="list-style-type: none">• Co-coordinator & Mentor• 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	Aug. 2020 – Present June 2020 – Present Feb. 2016 – Present Feb. – May 2019 Mar. 2018 – May 2019 Aug. 2015 – 2018
Awards/ Scholarship	John and Miyoko Davey Foundation Merit Scholarship <ul style="list-style-type: none">• One of 3 awardees for partial tuition coverage of \$20,000 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 MIT Autonomous Robotics Competition <ul style="list-style-type: none">• Placed 2nd, Won the Two Sigma Prize	2018 – 2019 Sept. – Dec. 2017 Feb. – Apr. 2017 Jan. 2016