Miles Smith

milessmi@mit.edu https://www.milesmsmith.com/

Education

2023 - Present	Massachusetts Institute of Technology Ph.D., Mechanical Engineering	Cambridge, MA
2020 - 2022	Stanford University MS, Civil and Environmental Engineering (Atmosphere/Energy)	Stanford, CA
2016 - 2020	University of Maryland, Baltimore County (UMBC) BS, Mechanical Engineering	Baltimore, MD
	Experience	
2023 - Present	Graduate Research Assistant Massachusetts Institute of Technology, Department of Mechanical Engineering Principal Investigator: Yang Shao-Horn	
	Research in electrochemical interfaces for next-generation battery materials.	
2022 - 2023	Mechanical Engineer (Fellowship) Otherlab / Channing Street Copper	
	Developed embedded system firmware and integrated control logic for pre-seed stag company	je start-up
2021 - 2022	Energy Systems Group Summer Research Program Lincoln Laboratory, Massachusetts Institute of Technology Supervisors: Erik Limpaecher, Theodore Bloomstein, Ph.D.	
	Developed a control system using Arduino to characterize the battery state-of-he function of the battery's internal resistance.	ealth as a
	Journal Publications	

Journal Publications

- 1. <u>Jacobson, M.Z.; von Krauland, A.-K.; Coughlin, S.J.; Palmer, F; Smith, M..</u> Zero Air Pollution and Zero Carbon From All Energy at Low Cost and Without Blackouts in Variable Weather Throughout the U.S. With 100% Wind-Water-Solar and Storage. Renewable Energy 2022
- 2. <u>Jacobson, M.Z.; von Krauland, A.-K.; Burton, Z.F.; Coughlin, S.J.; Jaeggli, C.; Nelli, D.; Nelson, A.J.H.; Shu, Y.; Smith, M.; Tan, C.; Wood, C.D.; Wood, K.D.</u> *Transitioning All Energy in 74 Metropolitan Areas, Including 30 Megacities, to 100% Clean and Renewable Wind, Water, and Sunlight (WWS). Energies 2020, 13, 4934.*

Patents

- 1. Induction Heating Adapter System and Method (Provisional)
- 2. Energy Storage Equipped Water Heater Architecture (Provisional)
- 3. Systems and Methods for Battery Enhanced Appliances (Provisional)

Conference Proceedings

1. <u>Jung, HJ.; Chervin, S.; Smith, M.; Lee, S.</u> Design of an impact-driven piezoelectric energy harvester with gravity-induced rotator for wind turbine blade monitoring system (Conference Presentation). Proc. SPIE 10595, Active and Passive Smart Structures and Integrated Systems XII, 105951Y (3 April 2018);

Honors and Awards

2024	Wunsch Foundation Silent Hoist and Crane Award (MIT)	
2021	GEM Full Fellowship (Stanford)	
2021	USTFCCCA NCAA Division I Men's Track & Field All-Academic Award (Stanford)	
2020	MDCAAA Postgraduate Scholarship Award Winner (UMBC)	
2020	Arthur Ashe Jr. Sports Scholar Award (UMBC)	
2020	Earnestine Bailey Baker Scholarship (UMBC)	
2018 - 2019	Undergraduate Research Award (UMBC) Project: Piezoelectric Energy Harvesting Research For Self-Sustainable Wind Turbine Monitoring Systems	
2016 - 2020	Meyerhoff Premier Scholarship Award (UMBC	
Affiliations		
	Ailliations	
2022 - Present	Peninsula Distance Club	
2022 - Present 2020 - 2021		
	Peninsula Distance Club	
2020 - 2021	Peninsula Distance Club Stanford Track and Field Team	
2020 - 2021 2016 - 2020	Peninsula Distance Club Stanford Track and Field Team UMBC Meyerhoff Scholar	
2020 - 2021 2016 - 2020 2016 - 2020	Peninsula Distance Club Stanford Track and Field Team UMBC Meyerhoff Scholar UMBC Cross Country and Track & Field Team (Captain)	