

Wendy Trattner

Education



2017-2021

Massachusetts Institute of Technology

Candidate for Bachelor of Science in Mechanical Engineering

Relevant Coursework

- Mechanics and Materials
- Design & Manufacturing I & II
- Dynamics and Controls I & II
- Thermal-Fluids Engineering
- Computation in Python, Matlab
- Full Stack Web Development with React JS
- The Art & Science of Negotiation
- Entrepreneurship in Engineering

Work Experience



Jan-June 2021

Gradient - San Francisco, CA

Mechanical Engineer Intern

Designed and tested performance-enhancing components for Gradient's flagship sustainable heat pump product launch | Led various verification & reliability test efforts which informed key product decisions, increased airflow performance, and enhanced product safety.



May-Dec 2020

Embark Trucks - San Francisco, CA

Hardware and Special Projects Intern

Designed autonomous truck components | Led mechanical analysis and implemented company's first design requirements | Onboarded team to Solidworks PDM | Proposed and developed partnerships strategy with C-suite | Defined growth model with Chief of Staff.



2019-2020

MIT Computer Science and Artificial Intelligence Laboratory, Distributed Robotics Lab - Cambridge, MA

Soft Robotics Undergraduate Researcher

Designed, fabricated, and tested sensorized handed shearing auxetics for soft robotic gripping | Projects focusing on development of soft, adaptive robotic grippers for applications in recycling/trash management and more.



Summer 2019

Lyft Level 5 - Palo Alto, CA

Mechanical Analysis and Reliability Intern

Designed, analyzed, and tested retrofit camera mounts to minimize sensor vibration | Performed acoustic testing and created company-wide noise requirements and abatement methods for new generation of autonomous vehicles.



2018-2019

Solar Electric Vehicle Team - Cambridge, MA

Mechanical/Aero/Composites Engineer

Designed and optimized driver roll cage for safety and efficiency using SolidWorks | Trained and supported new members | Manufactured crush zone and outer body, performed various composite layouts | Secured sponsorship, assisted with public outreach and media.



Summer 2018

Solar Powered Drone Research - Cambridge, MA; Wayqecha, Peru

Photovoltaic Engineer

Designed and built custom solar panels to power an automated quadcopter for rainforest conservation data collection | Tested product in Amazon Rainforest in collaboration with Conservation International | Created written reports to secure further funding and patents.

Extra Curriculars



2019 - 2020

Food Steward & Sustainability Chair at MIT Women's Independent Living Group

Reduced food waste by about 50% while saving \$5000+ | Created a sustainability chair position | Implemented a composting program for both WILG and the nearby fraternity ADP, for a total of 80 people.



2018-2020

LeanOnMe Peer Supporter & Exec Member

Lean On Me is an anonymous peer support texting hotline focused on improving mental health on college campuses and combating suicide statistics. It automatically and anonymously connects students in need of support with trained peer supporters who attend their school.



2017-2018

MIT Climate Action Team Event Coordinator

As part of MITCAT, I arranged for several speakers to come to MIT, including economic comedian Yoram Bauman and lead researcher for Project Drawdown Chad Frischmann.



2015-Present

Recreational Poetry, Painting, Rock Climbing, Website Development

My personal website portfolio can be found here: <https://wendytrattner.com/>