

Mechanical Engineer with over 3 years of experience using design principles to bring ambitious ideas to life.
Extensive experience with thermoelectric systems, numerous CAD softwares, and product development.

Experience	Parallel Fluidics <i>Mechanical Engineer</i> <ul style="list-style-type: none"> Design manufacturing equipment for microfluidic devices within +/- 10μm tolerances Use GD&T standards to manufacture parts both in-house and with external vendors Operate machine shop equipment to quickly prototype and de-risk design iterations 	DEC 2023 - Present Boston, MA
	Vision Cycle <i>Mechanical Engineer</i> <ul style="list-style-type: none"> Designed and conducted test procedures for novel digital separation technology Utilized fabrication techniques (soldering, assembling, machining, etc.) to build prototypes Collected and analyzed data to inform key software and hardware design decisions 	JAN 2023 - OCT 2023 Boston, MA
	Community Charter School of Cambridge <i>Lead Mathematics Teacher</i> <ul style="list-style-type: none"> Planned rigorous and engaging curriculum to meet state standards and student interest Analyzed real-time data during lessons to efficiently address student learning gaps Collaborated with Math department faculty to refine and practice teaching methodologies 	SEP 2021 - JUNE 2022 Cambridge, MA
	NOLOP Makerspace <i>Fabrication Supervisor</i> <ul style="list-style-type: none"> Executed fabrication requests using a variety of machines (3D printing, laser cutting, etc.) Identified and helped fix design flaws and fabrication inefficiencies in shop submissions Designed and led a workshop on a new design technique every semester 	SEP 2019 - MAY 2021 Medford, MA
	Tufts University <i>Medford, MA</i> Bachelor of Science in Mechanical Engineering Second Major in Anthropology	3.65 GPA (max 4.0) May 2021 May 2021
Skills	CAD: SOLIDWORKS, Fusion360, OnShape, AutoCAD Hardware: Arduino, Raspberry PI, Electrical Diagram Reading Thermal and Fluid Simulation: ANSYS, SolidWorks, PowerVIZ, OpenFOAM Software: Data Analysis and Visualization in Python and MATLAB, C++, PyTorch, Git Fabrication: 3 axis CNC machines, 3D Printing, Horiz/Vert Bandsaw, Soldering, Laser Cutter	
Licenses and Certifications	FAA Licensed Private Pilot <ul style="list-style-type: none"> Licensed to fly Single Engine Land Airplanes under 14 CFR Part 61 FAA Licensed Drone Pilot <ul style="list-style-type: none"> Licensed to fly Small Unmanned Aircraft Systems under 14 CFR Part 107 	
Projects*	Small Satellite Attitude Control System <ul style="list-style-type: none"> Fabricated a functional prototype using fluid mechanics and IMU to sense rotation FlowShow Wind Tunnel <ul style="list-style-type: none"> Designed, simulated, fabricated, and tested small-scale wind tunnel with streamline visualization and real-time velocity using SolidWorks and integrated airspeed sensors 	
Activities and Interests	Tufts Varsity Cross Country, Indoor/Outdoor Track <i>2019-20 & 2020-21 Captain</i> Interests: Reading, running, photography, piano, backpacking, and playing Frisbee	