JENNIFER YEO jenyeo@bu.edu • 650.534.5263 • Portfolio: jenyeo.github.io/

EDUCATION	
Boston University Boston, MA	Dec 2024
Candidate for Master of Science in Mechanical Engineering, Concentration: Dynamics, Systems, and Controls	GPA: 3.85
Activities: Mechanical Engineering Masters Ambassador	
Northeastern University Boston, MA	May 2023
Bachelor of Science in Bioengineering, Concentration: Medical Devices; Minor: Mechanical Engineering	GPA: 3.66
Honors and Awards: Dean's List (Fall 2019, Spring 2020, Spring 2021, Spring 2022)	
Activities: Enabling Engineering 2022, BMES Club 2021 Mentor, College of Engineering 2021-2022 Pe	er Mentor
EXPERIENCE	
Material Robotics Laboratory Boston, MASept 2	.023 - Present
Graduate Student Researcher: Millimeter Scale Soft Robotic Bronchoscope	
 Designed and machined alignment jig using a CNC Mill to improve accuracy and repeatability of ma process 	nufacturing
• Experimented with 5 materials used in biopsy tool deployment system (BTDS) manufacturing to de optimal material selections, decreasing film production time from 11 hours to 8 minutes	termine
• Modified BTDS design to add dexterity to tip of the robot by enabling steering capabilities	
• Designed and executed benchtop testing such as bending characterizations, puncture force, and blo	cked force
• Created lung simulator for surgeons using Python and Panda3D to aid in localization of biopsy tool	
Engineering Product Innovation Center (EPIC)Boston, MAJan 2	024 - Present
Student Lab Assistant	
 Trained students on machinery and equipment 	
Managed 3D print jobs of SLA and FDM and maintained organization using Jira for project manager	nent
Abiomed, Inc Danvers, MAJuly 202	22 – Apr 2023
Co-op, Product Development: Cardiology	
 Led designs and developed electro-mechanical and mechanical fixtures, including tests for cyclic be compression, off-axis tensile, for design verification of Impella right heart pump 	nd, tensile,
• Executed tests, developed test methodologies, and communicated findings to team	
 Managed and trained users for 3D printing space, including SLA and FDM printers 	
 Composed technical reports and engineering summaries on preliminary test results 	
MGH Martinos Center for Biomedical Imaging Boston, MAJan 2021 - May 2021; Jan 202	22 – July 2022
Intern, Undergraduate Student Researcher	
• Designed and fabricated visual stimulus goggles for ultra-high field (7 Tesla) MRI for high resolutio functional organization of visual cortex using SOLIDWORKS, Arduino, and EAGLE	n studies of
Distal Solutions, Inc. Westborough, MAJuly 202	21 – Dec 2021
Co-op, Product Development Engineer	
 Designed CAD models of fixtures for proprietary products for a thrombectomy startup 	
• Managed and fabricated designed fixtures for an air permeability test, pre-design verification force	tests,
simulated use, UV bonding, and press-fits utilizing 3D printing, UV curing boxes, and machine shop	tools
Generated CAD models and drawings using SOLIDWORKS sent for manufacturing	
Executed and analyzed tensile, compression, pressure, and leak testing on company products SKILLS	
Technological : SOLIDWORKS, OnShape, Fusion, MATLAB, Instron Testing, Arduino, Microsoft Office, Kevence OMM Javascrint Sketchun Vectorworks Mimics Python Linux Environment	HTML, CSS,
Fabrication: Laser cutter, 3D printer (SLA and FDM) IIV Curing Soldering Iron CNC and Manual Mill	and Lathes
Bandsaw, Chon Saw, Laser Welder, Split Die Ronder, Hot Rox, Drill Press, Table Saws	and Dutito,
Zanasan, shop san, haser werder, spit bie bonder, not bon, bin riess, ruble saws	