JENNIFER YEO

yeo.jen@northeastern.edu • 650.534.5263 • Portfolio: jenyeo.github.io/

May 2023

GPA: 3.61

— EDUCATION -

Candidate for Bachelor of Science in Bioengineering, Concentration: Medical Devices

Northeastern University | Boston, MA

UC Berkeley's Girls in Engineering

Honors and Awards: Dean's List (Fall 2019, Spring 2020, Spring 2021	
Activities: Biomedical Engineering Society Club 2021 Peer Mentor, C	college of Engineering 2021-2022 Peer Mentor
MGH Martinos Center for Biomedical Imaging Boston, MA	Jan 2021 – May 2021; Jan 2022 - Present
Intern, Undergraduate Student Researcher	jan 2021 – May 2021, jan 2022 - 1 163611
 Currently designing and fabricating visual stimulus goggles for ult 	ra-high field (7 Tesla) MRI for high resolution
studies of functional organization of visual cortex using SOLIDWO	
Distal Solutions, Inc. Westborough, MA	July 2021 – Dec 2021
Co-op, Product Development Engineer	, any 2021 200202
 Designed CAD models of fixtures for proprietary products for a thin 	rombectomy startup
 Managed and fabricated various designed fixtures for an air permo 	
simulated use, UV bonding, and press-fits utilizing 3D printing, UV	
Generated professional CAD models and drawings using SOLIDWO	-
• Executed and analyzed tensile, compression, pressure, and leak te	_
MGH Martinos Center for Biomedical Imaging Boston, MA	Aug 2020 – Dec 2020
Co-op, Undergraduate Researcher	-
• Accomplished statistical analysis of functional MRI data in two pro	ojects using MATLAB and Linux environment:
a) Compared cortical-depth-dependent vascular responses drive	n by visual and physiological stimulus across
cortical depths in cerebral amyloid angiopathy (CAA) and heal	thy subjects
 Co-authored conference abstract of study findings presented 	ed at Organization of Human Brain Mapping
b) Characterized and compared modulation of arousal levels on s	stimulus-driven hemodynamic responses
 Developed MATLAB programs to infer subject's arousal l 	
COTI Laboratory, Northeastern University Boston, MA	Apr 2019 – Dec 2020
Undergraduate Researcher	
 Performed 3-D photon transport simulations, including Monte Car 	
brain atlases to explore the experimental impact of scattering coef	
 Developed initial hardware and software prototypes for a low-cos 	
 Assisted post doctorate in technological work involving MATLAB a SKILLS 	and Arduino to operate galvanometers
Technological: SOLIDWORKS, MATLAB, Arduino, Microsoft Office, H	HTML, CSS, Javascript, Sketchup, Vectorworks,
Mimics, Linux Environment, AutoCAD, C++	
Fabrication : Laser cutter, 3D printer (SLA and FDM), UV Curing, Sol	
Laser Welder, Lathe, Split Die Bonder, Hot Box, Drill Press, Table Sav	vs, OMM
Languages : Burmese (Conversational), Chinese (Basic)	
BACKGROUND AND INTER	
• Projects: Wireless Muscle Powered Bike Signal, Scoliosis Schroth V	Wall, Coffee Table, Solar Powered USB Charger,

References available upon request.

Portfolio Website, LED GPS Watch, Dim Sum Coded Drawstring Backpack, iPhone 6 Microscope Attachment

• Community Involvement: Public Library Girls Who Code; Australian Red Cross; Children's Creativity Museum;

• Travel (Myanmar, Thailand, Australia, New Zealand, Japan), Swimming, Hand Embroidery