Maya M Lassiter

mayalassiter.net | (612) 719-8410 | maya.lassiter@gmail.com

EDUCATION

Carnegie Mellon University, Pittsburgh, PA
Master of Science in Electrical and Computer Engineering May 2019
QPA: 3.8/4.0

Bachelor of Science in Electrical and Computer Engineering May 2017
QPA: 3.1/4.0 Minor: Global Engineering

RELEVANT EXPERIENCE

Graduate Research Assistant Dec 2017 – Present
Prof. Maysam Chamanzar, Dept. of Electrical and Computer Engineering, Carnegie Mellon University
- Developed packaging process for optogenetic neural probes
- Characterized flexible Parylene-C waveguides

Nanofab Support Staff October 2017 – Present
Carnegie Mellon University
- Supported daily activity of all nanofabrication facilities
- Responsible for sputter system maintenance

PROJECTS

Piezoelectric MEMS Resonator Fabrication
Carnegie Mellon University Fall 2017 – Spring 2018
- Fabricated and characterized AlN resonators
- Simulated a multi-mode, multi-geometry system for reconfiguring AlN resonators

Hall Effect Based Proximity Sensing Fabrication
Carnegie Mellon University Spring 2017
- Fabricated Hall elements via Nickel electroless plating on P-Silicon
- Tested I-V characteristics and magnetic flux responses of Hall elements

Compassionate Engineering
Robotics Institute, Carnegie Mellon University Summer 2015
- Implemented a study on the role of compassion in engineering funded by the Fetzer Institute: *"iSTEP 2015: Cross-Cultural Technology Development Toward Language Access for the Deaf and Hard of Hearing," Maya Lassiter, Amal Nanavati, Erik Pintar, Minnar Xie, Ermine A. Teves, and M Bernardine Dias. tech. report CMU-RI-TR-16-32, Robotics Institute, Carnegie Mellon University, June, 2016.*
- Created suite of voice-powered computer games for Deaf students' verbal language acquisition in Python using Pygame framework

Solar Powered Dinghy
Contracted Prototype with SunRa LLC Winter 2015
- Retrofitted steel fishing hull with a solar canopy for in-harbor use as a passenger-ready water taxi in English Harbor, Antigua
- Designed regenerative solar-electric system with Torqueedo propeller and custom circuit housing

SKILLS

IRB protocol
process flow development
soldering
mask design
flip chip device bonding
epoxy bonding
carbon fiber casting
laser cutting
photolithography
electro-less plating
sputtering
silicon etching
MEMS
CMOS circuit analysis
Optics characterization

Atmel Studio
Autodesk Fusion 360
COMSOL
Cadence
Lumerical
MATLAB
Python
C

AWARDS AND LEADERSHIP

GEM University Fellow

William J. Happel Fellow

Future Faculty Program

IEEE Member

Teaching Assistant
Aug 2016 – Present

Community Advisor:
Stever House
Jan 2016 – May 2017

President's Task Force for Student Health and Well-Being
May 2016 - May 2017