

## + education

### Franklin W. Olin College of Engineering

Candidate for B.S in Engineering with Software Product Design 2018 GPA: 3.91

### Mass Academy of Math and Science

High School Diploma   GPA: 4.0   2014

Advanced two-year secondary school program at Worcester Polytechnic Institute (WPI)

## + projects

### ASL Interpreting Gloves

Fall 2015, designed and developed a glove that interprets American Sign Language into text for smoother communication in a team of four. I worked primarily in Arduino C code to calibrate the glove to specific users using lookup tables. Integrated flex sensors, accelerometer, an LCD screen, and 3D printed parts.

### Swarm Intelligence Algorithms

Fall 2015, developed optimization algorithms based on swarm intelligence found in animals like bees and ants. Used Object-Oriented Python to develop and test stochastic algorithms for an area and graph search.

### Rapid Recipes

Spring 2015, program in Python to take in a user's ingredients and time constraints and search the Yummly API for recipes that met those specifications, built with two other students. <http://rapid-recipes.herokuapp.com>

### Project Liberty - MakeMIT

Spring 2015, developed a personal safety bracelet targeted toward college aged students, 3D printed bracelet housing an Arduino, a Bluetooth module, and a small button paired with an Android application developed using Android Studio

### Genetics in *D. melanogaster*

October 2012 - January 2014, research completed at Worcester Polytechnic Institute, analyzing the effect of a knock-out gene in Drosophila nervous system, experimenting with genetics in major systems of Drosophila, bioinformatics work on protein with a role in cell division

## + employment

### Website Design and Management

Designing websites and logos for political figures, studio owners

Mar 2014 to Current

Needham, MA

### Princeton University Biophysics REU

Chemical Engineering internship, surfactant and polymer study

Summer 2015

Princeton, NJ

### Writing Tutor

Writing tutor for students at Olin College of Engineering

August 2015 to Current

Needham, MA

### Child Care

Primary care giver for infants to teenagers

2010 to Current

Worcester, MA

### Residential Resource

Orientation leader and mentor for first-year Olin College students

August 2015 to Current

Needham, MA

## + skills

### PROGRAMMING

Python, Git, HTML5, CSS, Javascript, MatLab, Arduino C, Solidworks, LaTeX, Wolfram Mathematica, Maple, MAYA

### WEBSITE DESIGN AND MANAGEMENT

Rapid Weaver, HTML, CSS, Adobe Creative Suite, Wordpress

## + websites

- **[accessibleicon.org](http://accessibleicon.org)**  
Design activism, reimagining the accessible icon, built with Wordpress
- **[rapid-recipes.herokuapp.com](http://rapid-recipes.herokuapp.com)**  
Recipe search engine, built with Python, HTML, CSS, Flask, Javascript
- **[simplyyogawithlynn.com](http://simplyyogawithlynn.com)**  
Yoga studio website, built with Rapid Weaver, HTML, CSS
- **[chandler4senate.com](http://chandler4senate.com)**  
Senate campaign website 2014, build with Rapid Weaver, HTML, CSS

## + volunteering

- Engineering Discovery, engineering outreach program, Present
- Habitat for Humanity build volunteer, 2012-2014
- Chemistry/Biology Tutor, 2010-2012
- Science for Shooting STARS, volunteer presenter, after-school STEM enrichment program, 2013-2014

## + activities and awards

- Society of Women Engineers (SWE)  
Treasurer 2015,  
Scholarship Recipient 2014
- Delegate for the 2014 American Association for the Advancement of Science (AAAS) convention in Chicago, 2014