annabel consilvio

engineer/designer

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+ education

Franklin W. Olin College of Engineering

Candidate for B.S in Engineering with Software Product Design 2018 GPA: 3.85

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

Mar 2014 to Current

Designing websites and logos for political figures, studio owners

Needham, MA

Princeton University Biophysics REU

Summer 2015

Chemical Engineering internship, surfactant and polymer study

Princeton, NJ

Writing Tutor

August 2015 to Current

Writing tutor for students at Olin College of Engineering

Needham, MA

Child Care
Primary care giver for infants to teenagers

2010 to Current Worcester. MA

Residential Resource

August 2015 to Current

Orientation leader and mentor for first-year Olin College students

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

Design activism, reimagining the accessible icon, built with Wordpress

- rapid-recipes.herokuapp.com
 Recipe search engine, built with
 Python, HTML, CSS, Flask, Javascript
- simplyyogawithlynn.com
 Yoga studio website, built with Rapid
 Weaver, HTML, CSS
- 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