

Jackie Loven

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EDUCATION

CORNELL UNIVERSITY

BS, MATERIALS SCIENCE & ENG.
Expected Dec. 2017

WORCESTER POLYTECHNIC INSTITUTE

LAST YEAR OF HIGH SCHOOL
2013 – 2014

MASS ACADEMY OF MATH & SCIENCE

ADVANCED SECONDARY SCHOOL
2012 – 2013

COURSEWORK

CORNELL

Java

Python

Aerosols and Colloids

Electrical Properties of Mat'ls

Mechanical Properties of Mat'ls

Kinetics and Diffusion

WPI

Physics

Calculus

SKILLS

PROGRAMMING

Proficient:

Java • Matlab • HTML / CSS

Worked with:

Python • JavaScript (Ext JS)

SQL • Android

3D PRINTING & DESIGN

SketchUp • iMovie • GIMP

Adobe Premiere

TOOLS

Eclipse / IBM RSA • Interana

Arduino • Android Studio

PROFESSIONAL EXPERIENCE

SONOS | DATA ANALYTICS INTERN

June 2016 – Aug 2016

- Wrote and optimized code to analyze previously unused temperature and volume data from millions of speakers (Java)
- Analyzed previously unused humidity, acceleration, and temperature data from product transportation routes
- Presented data visually to other teams (Interana)

TRAVELERS INSURANCE | SOFTWARE ENGINEERING INTERN

June 2015 – Aug 2015

- Added backend functionality for accessing documents in database (Java, SQL)
- Added custom UI functionality for viewing a table of insurance info and seeing previous versions of documents (JavaScript)
- Created and ran unit tests for existing code, found and fixed bug in existing code (Java)

ENGINEERING EXPERIENCE

KLASP | JEWELRY CLASP FOR LOSS OF HAND DEXTERITY

3D-printing with embedded magnets

Designed and 3D-printed a novel magnet-based jewelry clasp for arthritic users. Presented at the 2013 Easter Seals Assistive Technology Expo.

ZU | DEVICE FOR EASY EARPHONE STORAGE

3D-printing

Designed, 3D-printed, and sold a novel and cheap device for tangle-free earphone storage. <https://youtu.be/2cVIB-0IW54>

RESEARCH EXPERIENCE

CORNELL HANRATH ENERGY LAB | UNDERGRADUATE RESEARCHER

January 2016 – May 2016

Implemented genetic algorithms in MATLAB to discover and evaluate novel, more efficient solar cell designs. Publication in progress.

OTHER PROJECTS

See github.com/jLoven / jackieloven.com

Android app for patients to contact nurses nonverbally (see site)

Desktop app to create Java enum given spreadsheet (see site)

Soft earphone attachment to better fit human ear