

# Franton Lin

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## Education

**Franklin W. Olin College of Engineering** – Needham, MA

May 2018

*Candidate for Bachelor of Science in Electrical and Computer Engineering (cum. GPA: 3.76)*

## Experience

**Onshape** – *UI Development Intern* – Somerville, MA

Summer 2016

- Worked with UX, QA, and back end developers to implement front end of new features, including the rename keyboard shortcut and public document links, copies, and likes
- Assisted in localization of Onshape, helping solve problems from developers and translators
- Performed bug fixes for the user interface, comprised primarily of HTML, Less, Angular, and Backbone

**Ivani LLC** – *UX Intern* – Dardenne Prairie, MO

Summer 2015

- Interviewed potential users to gain insight regarding the user experience and explore possible features for N-Way Switch Technology, Network Presence Sensing Technology, and future product directions
- Created multiple versions of mockups for mobile and physical user interfaces

**Olin College of Engineering** – *ISIM Teaching Assistant* – Needham, MA

Fall 2015, present

- Hold lecture review and lab help sessions for Introduction to Sensors, Instrumentation, and Measurement (ISIM) students, grade and comment on lab reports

**NASA Glenn Research Center** – *SCaN Intern* – Cleveland, OH

Summer 2014

- Developed C program that collected Bluetooth connectivity opportunity data between multiple Raspberry Pi's, which can be used to test Delay/Disruption Tolerant Networking (DTN) algorithms
- Performed research on mathematical assumptions pertinent to deep space laser communication for the Integrated RF and Optical Communications (iROC) project

## Projects

**Sonify** – *Sonic Communication Between Computers* – Signals and Systems

Spring 2016

- On a team of two that wrote software to communicate string messages via a two-tone waveform that is transmitted through one computer's speakers and received through another computer's microphone

**Kuky** – *Anonymous Haiku Forum* – Mobile Prototyping

Fall 2015

- On a team of four that created an anonymous haiku forum for Android users
- Worked on NodeJS API endpoint implementation and created mockups for the front end design

**Stanchion** – *Dynamic Crowd Control* – HackMIT

Fall 2015

- On a team of four that created a physical prototype for a dynamic crowd control system that automatically adjusts traffic patterns based on data from predictive analysis and image processing
- Implemented the website front and back ends and contributed to the electrical build
- Team awarded the "General Electric: Great User Experience" prize

**Kyzzr** – *Virtual Torch Passing Mobile Application* – Software Design

Spring 2015

- On a team of four that created a social game involving Android users exchanging virtual torches via NFC
- Designed and implemented the Flask back end and the website front end for users to view torch location

**Ultrasonic Thieremin** – Introduction to Sensors, Instrumentation and Measurement (ISIM)

Fall 2014

- Built a thieremin using ultrasonic transducers, op-amps, and RC circuits, and an Arduino

## Skills

**Languages** JavaScript, HTML, CSS, Python, Java, and C

**Software** GitHub, JIRA,  $\LaTeX$ , MATLAB, Android Studio, Sibelius 7, and Serato

**Hardware** Oscilloscopes, soldering, DSLRs, and professional audio equipment

## Activities

**PowerChords** – *a cappella group*

Fall 2014 - present

- Music director (present), assistant music director (2015) of auditioned a cappella group
- Run rehearsals, help out with and keep track of arrangements and overall musical and performance timeline

**Stay Late and Create (SLAC)** – *collaborative workspace organization*

Fall 2015 - present

- Member of leadership team that organizes and plans weekly events for students to share skills, test new ideas, and work on collaborative projects

**Ink, Inc.** – *screen printing club*

Spring 2015 - present

- Co-founder of club responsible for maintaining space and providing vinyl cutter and screen printer trainings