

# 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: 3.77)*

## Experience

- **Ivani LLC** – *Intern* – Dardenne Prairie, MO Summer 2015
  - Performed user research and designed UI/UX for N-Way Switch Technology and future projects
  - Developed logic flow for back end and mobile applications
- **Olin College of Engineering** – *ISIM Teaching Assistant* – Needham, MA Fall 2015
  - Held lecture review and lab help sessions for a group of Introduction to Sensors, Instrumentation, and Measurement (ISIM) students
  - Graded and commented students' lab reports
- **Olin College of Engineering** – *IT Technician* – Needham, MA Fall 2014 – Present
  - Troubleshooting and resolving software and hardware problems with computers
- **NASA Glenn Research Center** – *SCaN Intern* – Cleveland, OH Summer 2014
  - Investigated Delay/Disruption Tolerant Networking (DTN) applications
  - Developed C program that collected Bluetooth connectivity opportunity data between multiple Raspberry Pi's, which will be used to test DTN algorithms
  - Performed research on mathematical assumptions pertinent to deep space laser communication for the Integrated RF and Optical Communications (iROC) project
- **AIM Laboratory at UConn** – *Intern* – Storrs, CT Summer 2013
  - Involved in developing buoyancy and propulsion systems for AUV project
  - Worked on implementing L1 adaptive control theory in quadcopter autopilot systems and in vision-based obstacle avoidance
- **Eastern Connecticut State University** – *IT Intern* – Willimantic, CT Summer 2012
  - Assisted with router and switch setup and configuration, worked on server installation and Powershell scripts, and developed images using Microsoft SCCM 2012

## Projects

- **Kuky** – *Anonymous Haiku Forum* – Mobile Prototyping Fall 2015
  - On a team of four that created an anonymous haiku forum for Android users
  - Created wireframes and helped design the mobile app front end
  - Helped implement the backend API endpoints, focusing on security and authentication
- **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
- **Kyzz** – *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 by tapping their phones together
  - Designed and implemented the Flask back end and the website front end for viewing torch-passing location and other user statistics
- **Ultrasonic Theremin** – Introduction to Sensors, Instrumentation and Measurement Fall 2014
  - Built a theremin using ultrasonic transducers, op-amps, and RC circuits, and an Arduino
- **OpenROV** – *Underwater Remotely Operated Vehicle* – The Hotchkiss School Fall 2013 – Spring 2014
  - Constructed, debugged, and tested an OpenROV for the Hotchkiss School Science Department to explore the nearby lake

## Technical Skills

- Languages: Python, Java, C, JavaScript, HTML, and CSS
- Software: GitHub, L<sup>A</sup>T<sub>E</sub>X, Android Studio, MATLAB, Sibelius 7, and FL Studio
- Hardware: Analog Discovery USB Oscilloscope, soldering, DSLRs, professional audio equipment

## Leadership and Activities

- PowerChords (auditioned mixed-gender a cappella group) – *assistant music director*: 2015 2014 – present
- Ink, Inc. (screen printing club) – *co-founder, coordinator*: 2015 2015 – present
- Stay Late and Create (SLAC) – *member of leadership team*: 2015 2015 – present
- Varsity Cross Country – *captain*: 2014 2010 – 2014