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

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 – Present
  - Holding lecture review and lab help sessions for a small group of Introduction to Sensors, Instrumentation, and Measurement (ISIM) students
  - Grading and providing feedback for 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

- **Stanchion** – *Dynamic Crowd Control* – HackMIT — Fall 2015
  - On a team 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
- **Kyzr** – *Virtual Torch Passing Mobile Application* – Software Design — Spring 2015
  - On a team that created a social game involving Android users exchanging virtual torches 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
- Programs: MATLAB, LaTeX, GitHub, Sibelius 7, and FL Studio
- Hardware: Analog Discovery USB Oscilloscope, soldering, DSLRs, professional audio equipment

Leadership and Activities

- Ink, Inc. (screen printing club) – *co-founder, coordinator: 2015* — 2015 – present
- PowerChords (auditioned mixed-gender a cappella group) – *assistant music director: 2015* — 2014 – present
- Science Club – *head: 2013, 2014* — 2010 – 2014
- Varsity Cross Country – *captain: 2014* — 2010 – 2014