Franton Lin

frantonlin.com contact@frantonlin.com linkedin.com/in/frantonlin

Education

- **Franklin W. Olin College of Engineering** – Needham, MA — May 2018
  Candidate for Bachelor of Science in Electrical and Computer Engineering
- **The Hotchkiss School** – Lakeville, CT — May 2014
  High School
  - Introduction to Algorithms (MIT online), Linear Algebra, Discrete Mathematics

Experience

- **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
- **Ivani LLC** – Intern – Dardenne Prairie, MO — Summer 2015
  - Performed user research and designed UI/UX for N-Way Switch Technology
  - Developed logic flow for back end and mobile applications
- **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

- Created a physical prototype at HackMIT for Stanchion, 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; awarded the "General Electric: Great User Experience" prize — Fall 2015
- Worked on a team in Software Design that created Kyzr, a virtual torch passing application for Android phones; designed and implemented the Flask back end and the website front end — Spring 2015
- Built a theremin for Introduction to Sensors, Instrumentation and Measurement (ISIM) using ultrasonic transducers, op-amp and RC circuits, and an Arduino — Fall 2014
- Researched underwater ROV design and constructed, debugged, and tested an OpenROV for the Hotchkiss School Science Department — Fall 2013 – Spring 2014
- Reproduced a version of the classic Pong game in Java — Spring 2013

Technical Skills

- Languages: Python, Java, C, JavaScript, HTML, CSS, and Powershell
- 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