EDUCATION

**Tufts University**, Medford, MA

Bachelor of Science in Electrical Engineering and Bachelor of Arts in Mathematics, May, 2013

Cumulative GPA: 3.83

Honors: Eta Kappa Nu, Tau Beta Pi, Harry Poole Burden Prize, Dean's List All Semesters, National Merit Scholar

WORK EXPERIENCE

**Cogo Labs**, Cambridge, Massachusetts

*Development Manager* (February 2016 – Present)

*Senior Analyst* (March 2015 – January 2016)

*Quantitative Analyst* (June 2014 – March 2015)

* Architect Python codebase for marketing campaigns generating $700k+ in monthly revenue
* Directly manage 5 people, create Python, Git, and Linux training materials for analysts
* Analyze Postgres and Redshift datasets
* Created 5+ Flask and Django web applications, deployed with Git and Docker

**The MITRE Corporation**, Bedford, Massachusetts

*Electrical Engineer* (July 2013 – May 2014)

* Created algorithms to combine multiple navigation sensors using Kalman filtering for robust navigation
* Published 2 technical reports on the signal processing features of GPS receivers
* Designed experiments to test robustness of GNSS equipment under varying conditions

PAST COURSEWORK AND PROJECTS

**Courses**: Advanced Digital Signal Processing, Detection and Estimation, Real Analysis, Computer Science with C++, Probabilistic Systems Analysis, Linear Algebra, Discrete Mathematics, Communication Systems, Differential Equations

**Senior Design Project, AR Drone for Structural Health Monitoring,** 2012-2013

* Designed prototype using the Parrot AR Drone to gather structural health information
* Created algorithms for autonomous navigation, sensor location, and image analysis
* Implemented hardware to interrogate passive RFID tags holding sensor information
* Won 2013 Harry Poole Burden Prize for best electrical engineering research project

RESEARCH EXPERIENCE

**Tufts Summer Scholar Program** Medford, MA, May 2012 - August 2012

* Joined interdisciplinary research team to segment and quantify collagen images
* Explored image processing techniques to write automated algorithmic solutions
* Presented research results to both a board of peers and to a general audience

**Florida Atlantic University EE Department** Boca Raton, FL, July 2011 - August 2011

* Researched the Eigenfaces and PCA algorithms and gained practical MATLAB experience

TECHNICAL SKILLS

**Languages:** Python, SQL, JavaScript, Bash, C, C++, CSS, HTML, MATLAB

ACTIVITIES

**Tufts Varsity Baseball***.* 2009- 2013

* Named to the 2013 Capital One First Team Academic All-America Team
* Participated in the Level The Field program and led baseball clinics for inner-city students