

# AARAV BALSU

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Address: 5 Saint James Pl, Boston, MA, 02119

## Education

**Northeastern University** – M.S. Engineering Management

**September 2017 – May 2019**

**University of Illinois at Urbana-Champaign** – BSc. Aerospace Engineering

**August 2013 – May 2017**

**American International School of Abu Dhabi** – International Baccalaureate Program

**September 2009 – May 2013**

## Skills

### CAD

Siemens NX 9.1, Creo, SolidWorks

### Computer Programming

C++, MATLAB, Simulink

### General Computer Proficiencies

Linux, Mac OS X, Microsoft Windows, LoggerPro, NX Thermal, Microsoft Office (Word, Excel, PowerPoint, etc.),

### Computer & Information Security

A+, CCNA, OSCP (in progress)

### Relevant Coursework

Aerospace Controls Systems  
Orbital Mechanics, Optical Remote Sensing, UAV Nav&Control, Operations Research, Project Management, Lean Applications, Data Mining, Economic Decision Making, Advanced Network Optimization

## Professional Experience

**SECURITY ANALYST INTERN** – Bishop Fox – Phoenix, Arizona

**September 2018 – December 2018**

- Participated in the role of a junior security analyst at a well-established information security consulting firm during their busiest quarter of the fiscal year.
- Collaborated closely with a senior analyst in an external and internal network security analysis of a well-known fintech company.
- Led a team of other analysts in reviewing web application security mechanisms for one of our clients.

**STUDENT TECHNICIAN** – ResNet Resource Center – Boston, Massachusetts

**December 2017 – Present**

- Resolving technology issues for students and gaining valuable operations and leadership experience with a small, agile technical support team.

## Technical Experience

**CO-FOUNDER** – Dreadnought Robotics, University of Illinois – Champaign, Illinois

**January 2016 – January 2017**

- Built an aerial fixed-wing UAS from scratch, named SkyButler, to deliver a safer, cheaper, more hackable aerial robotic experience to consumers.
- Participated in COZAD entrepreneurship competition against other teams to secure a \$150,000 grand prize.
- Led a team of six other undergraduate students from various engineering disciplines to create SkyButler, learning various skills in the process related to controls, structural integrity, material science, and aerodynamics.

**PROJECT ASSISTANT** – University of Illinois - Champaign, Illinois

**May 2015 – September 2015**

- Assisted in the Lower Atmospheric Ionospheric Coupling Experiment (LAICE), a CubeSat project in collaboration with Virginia Tech.
- Gained valuable experience in understanding space based thermal simulation, signals processing, radio operation, and vacuum chamber optimization for the project.
- Led the team in charge of creating the electrical connections between the various subsystems of the nanosatellite.

## Extracurricular Experience

**DOG SOCIALIZER** – Champaign County Humane Society - Champaign, Illinois

**June 2015 – May 2017**

**TEAM MEMBER** – Engineering Ambassadors – Champaign, Illinois

**April 2014 – May 2017**

- Gained experience with effective technical communication and public speaking.
- Participated in STEM outreach to underrepresented demographics in Illinois middle and high schools.

**LinkedIn:** <https://www.linkedin.com/in/aaravbalsu>

**Website:** [aaravbalsu.github.io](http://aaravbalsu.github.io)