



# Brandon Ng

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## Education

*Bachelor of Science: Computer Engineering*  
*Minor in Electrical Engineering*  
*Boston University*

*Boston, MA*

Expected Graduation: May 2018  
GPA: 3.34 out of 4.0  
Spring 2016 Dean's List Recipient

## Technical Skills

### Programming

- Languages: HTML; CSS; JavaScript; Python; C++
- Basic Linux command line experience
- Fundamental understanding of Object Oriented Programming concepts

### Hardware

- Practiced in through-hole and SMT soldering, EAGLE PCB design, and circuit layout testing
- Experienced with microelectronic circuitry, oscilloscopes, function generators, and multimeters

### Software

- Familiar with AutoCad, MS Office, and Adobe Photoshop and Illustrator

## Projects

### Light Collimator Tester

- Led a team of five to build a testing device for a light collimator designed by Agira Photonics
- Designed the layout for the circuitry and programmed the Arduino controlled lux meter and DC motors used to construct the collimator tester

## Experience

### Research Assistant

*Feb 2016-Present*

### Andesite, Boston University Miniature Satellite Research Lab

*Boston, MA*

- Designed the layouts for the solar panel and EPS PCBs, in EAGLE, for deployable pico-satellites, which will be ejected from the cube satellite to gather magnetometer data around the Aurora Borealis
- Fully populated the PCBs by hand and tested the functionality of the boards.
- On track to launch our CubeSat in June 2017

## Extracurricular Activities

### Boston University Fencing Club

*Sep 2014-Present*

- Often represents Boston University at intercollegiate tournaments
- Serving as treasurer on the executive board for the 2016-2017 academic year

### Global App Initiative

*Sep 2014-Present*

- Develops and publishes apps for non-profit organization. In my first year, I was a member of the iOS version of the BU Community App team
- Currently, I am a member of the Operations Committee where we organize events for the GAI Community and fosters GAI App team relations

### Boston Hacks Organization Committee

*April 2016-Present*

- Organizing annual Hackathon in April, which will host over 350 college students from across North America, in addition to Boston University students who choose to participate

### Hackathons

- HackHarvard '16: Constructed a Particle controlled, automated smoothie maker in a group of four
- YHacks '16: Worked on an iOS based camera application and created my website ([bng8.github.io](http://bng8.github.io))

## Community Service

### Pan Mass Challenge Kids Volunteer

*May, 2013-2016*

- Guided volunteers along the designated bike path
- In May 2014, I held the position of Fundraising Committee Co-Chair where I led a committee in organizing and raising funds for the event