

# Brandon Ng



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## Education

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

Expected Graduation: May 2018  
GPA: 3.42 out of 4.0  
Spring & Fall 2016 Dean's List Recipient

## Technical Skills

### Hardware

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

### Programming

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

### Software

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

## Projects

### *Agira Photonics Light Collimator Tester*

- Led a team of five to create a device for testing the efficiency of an Agira made light collimator
- Designed the layout for the circuitry and programmed the Arduino controlled lux meter and DC motors used to enable the device to collect light intensity measurements around the collimator

### *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))

### *Wisely*

- Produced a student themed choose-your-own-adventure Android app in a group of four
- Created all the vector images used and coded the back end functionalities of reacting to a user's choice

## Experience

### *Research Assistant*

*Feb 2016-Present*

### *Andesite, Boston University Miniature Satellite Research Lab*

*Boston, MA*

- Designing 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 populating the PCBs by hand and testing the functionality of the boards
- On track to launch our CubeSat in November 2017

## Extracurricular Activities

### *Boston Hacks Organization Committee*

*April 2016-Present*

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

### *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. Was a member of the iOS version of the BU Community App team in my first year
- Currently a member of the Operations Committee where we organize events for the GAI Community and fosters GAI App team relations

## 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