

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)

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