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**Education**

**Boston University College of Engineering,** Boston, MA

Bachelor of Science in Electrical Engineering (3.85/4.00), Dean’s List May 2021 exp.

**Relevant Coursework**

Electric Circuits, Programming for Engineers, Intro to Software Engineering, Electrodynamics/Electromagnetic Systems, Computational Linear Algebra, Engineering Design, Multivariable Calculus, Differential Equations

**Technical Skills**

**Programming:** MATLAB, C/C++, Julia, Linux

**Electronics:** Altium, PCB design, soldering

**Experience**

**Boston University Rocket Propulsion Group (BURPG)** Fall 2017 – Summer 2018

2017-2018 High-Powered Rocket Competition Team 3, Head of ECE

* Designed and built a high-powered rocket that both measured how the Earth’s magnetic field affects safe altitudes for astronauts and how cultures of bacteria reproduce at different rates at different altitudes and G-forces.
* Utilized team-made onboard AVR computers systems mounted on PCBs designed and printed in Altium to record data from sensors and make calculations.

**New York Hall of Science:** Corona, New York

Junior Research Fellow June 2016 – August 2016

* Collaborated with the NYSCI SciPlay division to kickstart a new research project for a graphic novel featuring a paleo-anthropologist as the protagonist.
* Performed QA testing for the newest NYSCI app Picture Dots.

**Projects**

**Reader Resume** Fall 2017

* Developed an app that evaluates users’ resumes and cover letters based on word choice. Uses the 100,000 most common English words and sample resumes from universities nationwide to determine if the user’s resume is sufficiently well-worded.
* Made in MATLAB using AppDesigner.

**Swipe Dorm** Fall 2018

* Converted a lock-and-key dorm door into a swipe-ID door to reduce risk of being locked out.
* Used a Raspberry Pi Zero with a magnetic swipe card reader and a servo motor to unlock the door.

**Music Box**

* Created a desktop box that lights up along with inputted audio signals. Fall 2017
* Used analog electronics to convert audio signals into current pulses.

**Involvement**

**BU Rocket Propulsion Group**

Member, HPR Team Lead Fall 2017 – Summer 2018

**Boston University Pep Band**

Alto/Tenor Saxophone Fall 2017 – Present