

# Benjamin Livney

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## Education

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

Bachelor of Science in Electrical Engineering (3.93/4.00)

May 2021 exp.

Dean's List

### Relevant Coursework

Programming for Engineers, Electricity and Magnetism, Computational Linear Algebra, High Performance Computing, Multivariable Calculus, Differential Equations

## Technical Skills

**Programming:** MATLAB, C, Julia, Python

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

## Experience

**Boston University Rocket Propulsion Group (BURPG)**

Fall 2017 – Present

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

- Design and building 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.
- Design and print PCBs in Altium to record data from sensors and make calculations with team-made onboard computer systems.

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

Junior Research Fellow

June 2016 – August 2016

- Conducted data collection and observation on the science playground and on the museum floor, integrated new iPads left over from the Playground Physics study into the iPad library.
- Managed and organized the Noticing Tools apps within TestFlight, conducted quality control on the new 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.

**Music Box**

Fall 2017

- Designed and built a clear plastic box that plugs into speakers and flashes light along with music.
- Uses the volume of the music as a signal to determine how much current flows through LEDs.

## Involvement

**BU Rocket Propulsion Group**

Member, HPR Team Lead

Fall 2017 – Present

**BU Pep Band**

Member, Tenor Saxophone

Fall 2017 – Present