

# Andrew John Blunt

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## EDUCATION:

**Northeastern University**, Boston, Massachusetts May 2021

**GPA:** 3.29

Candidate for a Bachelor of Science in Mechanical Engineering, Minor in Mathematics

**Courses:** Engineering Mechanics and Design, Material Science, Electronics, Differential Equations, Chemistry, Probability and Statistics, Calculus II-III, Cornerstone of Engineering I-II, Physics II, Macroeconomics

**Activities:** ASME, AIAA, Enabling Engineering, Roxbury Robotics

**Glendora High School**, Glendora, California Graduated May 2016

**AP Courses:** Physics 1, Physics C Mechanics, Calculus BC, Computer Science, English Language, US History

**Honors:** NHS Member (2013-2016), AP Scholar with Distinction (2016), California Scholarship Federation Member (2013-2016)

**Activities:** Marching Band, Engineering Club, Link Crew (Peer Mentoring)

## COMPUTER SKILLS:

**Applications:** Arduino, MATLAB, AutoCAD, SolidWorks, Microsoft Office, Linux

**Programming:** Java, Python, C++, C, Ruby, HTML, CSS, Javascript, AJAX, Bootstrap, SQL

## WORK EXPERIENCE:

**Teaching Assistant | Northeastern University College of Engineering** September 2017 - Present

- Tutor students who require homework help in C++, MATLAB, AutoCAD, and SolidWorks for Cornerstone of Engineering
- Grade homework for the class and provide detailed feedback

**Regal Entertainment Group | La Verne, CA** Seasonally May 2016 - September 2017

- Assisted in operation of running a movie theater through customer service, operating concession stand, and stocking supplies

**Private Physics and Math Tutor | Glendora, CA** August 2015 - May 2016

## RELEVANT ENGINEERING EXPERIENCE & PROJECTS:

**ALERT Research Lab | Northeastern University** October 2016 - May 2017

- Simulated waves passing through dielectrics of varying constants to determine if sample material was a possible explosive
- Modeled graphs of the wave energy as it traveled through a dielectric in MATLAB

**AIAA at Northeastern University** September 2016 - Present

- NASA Student Launch
  - Brainstorm and design parts in SolidWorks as a member of the payload team, including a deployment system for solar panels and a system to safely eject the rover from the rocket after landing
  - Modeled parts in SolidWorks to ensure rover met project enforced size requirements due to a fixed rocket size
- Planetary Lander
  - Competed in Battle of the Rockets competition with Northeastern AIAA chapter
  - Modeled real parts in SolidWorks to allow for better simulation of how the lander would operate once deployed

**Enabling Engineering** September 2016 – May 2017

- 3-D Block Communication
  - Met with client to determine specific need for project: ability for students to communicate more effectively
  - Prototyped multiple 3-D printed models which were positively received by the client

## LEADERSHIP AND VOLUNTEERING:

**Boy Scouts** September 2004 - June 2016

- Earned the rank of Eagle Scout in October 2015 and am a current member of the National Eagle Scout Association (NESA)
- Appointed to and served in numerous troop leadership positions including: Junior Assistant Scoutmaster, Senior Patrol Leader, and Assistant Senior Patrol Leader
- Volunteered on many service projects including: trail clearings, beautification of parks, and community building restorations

**Marching Band** August 2012 – January 2016

- Elected as Parliamentarian, performed tasks integral to the operation of the band including: copying music, maintaining focus at rehearsal, and instructing members who needed additional help in music and marching

**Volunteering** September 2016 - Present

- Volunteer at Orchard Gardens Charter School in Roxbury, Massachusetts, to instruct the students in the fundamental concepts about robotics and engineering design.

## BACKGROUND AND INTERESTS:

### Miscellaneous

- Traveled to four foreign countries and approximately thirty states
- Study German and Spanish language