

Brendan Lutes

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EDUCATION

Fairview High School Class of 2016

- Grade Point Average - 4.36
- International Baccalaureate (IB) Courses and Tests
- Advanced Placement Courses and Tests

University of Colorado Boulder

- Grade Point Average - 3.64
- BS Aerospace Engineering
- BA Music- Voice
- Engineering Honors Program

EMPLOYMENT

Payload Engineer, Colorado Space Grant Consortium

January 2017-Present

- Designed, modeled, tested, and flew a reusable space structure
- Gained experience with CAD, 3D printing, epoxy, material science, collaborative projects, and aerospace presentations

Mathnasium Instructor

January 2016-August 2016

- Tutored students K-12 in math, ranging from simple addition to calculus
- Responsible for up to 6 students at one time

Referee, Colorado Youth Soccer Association

June 2010-Present

- Referee for youth and adult leagues up to 50 years of age
- Responsible for policies and oversight of soccer games as well as communication and accountability during the games
- Complete athletic testing and annual state certifications

ENGINEERING SKILLS

Coding

- Proficient in Java, VBA, Matlab, Microsoft Office
- Beginning Experience in Mathematica, LaTeX, Solid Works, Altium

Technical skills

- Familiarity with most lab equipment (multimeters, soldering, etc.), Arduino platform, and Raspberry Pi Platform.
- Understanding of an end to end project lifecycle including relevant proposals, presentations, and funding applications

LEADERSHIP AND INVOLVEMENT

Eagle Scout, Troop 78, The Boy Scouts of America

September 2009-Present

- Reached the highest rank of Eagle Scout
- Eagle Scout Project - researched, planned, and led the repairs on ADA trails in Boulder, with over 45 adult and youth volunteers
- Accomplishments include: Order of the Arrow, Assistant Senior Patrol Leader, Patrol Leader, National Youth Leadership Training, Leave No Trace Coordinator, and Klondike City Mayor
- 300 Plus Hours of Volunteer Work

Engineers Without Borders Nepal

August 2016-Present

- Leadership team -- Secretary and Social Coordinator
- US Point of Contact for Travel Teams

Fairview Musicals, Choirs, and POPS Shows, Fairview High School

August 2012-May 2016

- Actively participated in at 6-8 POPS acts per year, which are student organized, arranged, and produced.
- 2014-15 Lead Male Role, *Anything Goes- Fall Musical*
- 2015-16 Student Director of Chivalry Men's Choir
- 2015-16 Vice President of Excalibur Jazz Choir
- 2015-2016 Fall Musical Cast Captain- Coordinated cast activities and took on responsibilities when faculty director was not present.

RELAVENT COURSEWORK

Mathematics

- Up to Calculus 3
- Differential Equations with Linear Algebra

Electrical Engineering Projects

- Gained familiarity with lab equipment, designed and produced a car emissions sensor with a custom PCB.

HONORS AND AWARDS

2010 Boulder Optimist Award Recipient

2011 American Legion Award Recipient

2014 BSA Klondike City First Place Award Recipient

2016 Fall Semester Dean's List

2017 Spring Semester Dean's List

2017 Best Presentation Colorado Undergraduate Space Research Symposium