

Brent Frieden

Boulder, CO

(719)-551-8289 brent.frieden@colorado.edu www.linkedin.com/in/brentfrieden
<https://sites.google.com/a/colorado.edu/brent-frieden/>

EDUCATION:

University of Colorado Boulder

Boulder, CO

- B.S. Mechanical Engineering Aug 2015-Present
- GPA: 4.0 • CU Cycling Team • Dean's List • Engineering Honors Program
- Expected Graduation Date: May 2019

ENGINEERING EXPERIENCE

Physical Measurements Laboratory Engineering Intern

Boulder, CO

National Institute of Standards and Technology

Jun 2018-Oct 2018

- Designed and manufactured custom equipment for high precision faint-photonics experiments
- Developed plan for building renovation and relocations
- Tracked division work orders amounting to \$410,000

EcosySTEM Arts Children's Hospital Toy CAD Engineer

Boulder, CO

University of Colorado Boulder

Aug 2018-Present

- Managing and overseeing CAD workflow, assemblies, and progress of the team
- In charge of revision control and file management
- Validating and compiling engineering drawings for manufacturing

Drill Powered Bicycle Competition Systems Engineer

Boulder, CO

University of Colorado Boulder

Jan 2018-May 2018

- Designed and constructed drill-powered vehicle, ensuring compatibility between chassis, drivetrain, and controls
- 2nd Place team result in competition

Carbon Fiber Research Project

Boulder, CO

University of Colorado Boulder

Jan 2018-May 2018

- Researched use, manufacturing, and repair of composites in the cycling industry
- Interviewed industry expert on carbon fiber repair and use
- Summarized findings in technical report and presentation

TECHNICAL SKILLS:

Certified SolidWorks Associate

Software: MATLAB, Microsoft Office, Microsoft Project, Python/Raspberry Pi

Manufacturing: 3D printing, Lasercutting, Mill, Lathe

Training/Certifications: Laser safety, hazardous chemicals, and PPE

ADDITIONAL EXPERIENCE:

Non-Profit Student Intern

Managua, Nicaragua

ABWE

Sept 2017-Dec 2017

- Developed 5-year plan and vision for the Nicaragua Team
- Aided in project planning and preparation and construction for building project
- Performed masonry, roofing, and concreting

Trail Crew

Granby, CO

Snow Mountain Ranch

May 2016-Aug 2016

- Developed efficient methods for trail and construction related tasks
- Built and maintained trails, bridges, and roads on the property
- Developed woodworking skills constructing bridges and abutments