

ASPIRING MECHANICAL ENGINEER | PRODUCT & AEROSPACE ENTHUSIAST

Ambitious and dynamic self-starter with proven success and interest in **contributing to complex mechanical and manufacturing engineering projects**. Agile and analytical engineer, renowned for **rapidly learning and leveraging new tools and technology**. Energized and approachable leader, **adept at inspiring collaboration and excellence**.

Engineering	Mechanical Engineering, Aerospace Structures, Prototype Development
Manufacturing	3D Printing, Laser Cutting, Epoxy Resin & Silicone Casting, Soldering, Mill, Lathe
Programming Languages	LaTeX, Arduino, HTML, CSS, Python
Software	MATLAB, Simulink, LabVIEW, SolidWorks, OnShape
Leadership & Engagement	Project Management, Team Leadership, Customer Service, Budget Management

ENGINEERING EDUCATION & CERTIFICATIONS

UNIVERSITY OF COLORADO BOULDER | Boulder, CO

Graduated May 2016

Bachelor of Science in Mechanical Engineering

- Student member of the **American Institute of Aeronautics and Astronautics (AIAA)**
- Coordinated project schedule and managed budget to create a drill-powered vehicle—**development was completed 1 week ahead of schedule**, allowing for extensive testing and improvements

CERTIFIED SOLIDWORKS ASSOCIATE, MECHANICAL DESIGN | DASSAULT SYSTEMS

Accredited Since Dec 2014

ENGINEERING EXPERIENCE

ONGOING DEVELOPMENT & ENGINEERING PROJECTS | [Online Portfolio](#)

Jan 2015 – Present

Engage in ongoing engineering, STEM, and technology development projects to further enhance and broaden skills.

- Developed and coded an [online portfolio](#) website utilizing HTML and CSS
- Conceptualized and designed **desktop garden planter prototype** with **automatic pump and LED lighting systems**

SENIOR PROJECT, UNIVERSITY OF COLORADO BOULDER

Aug 2015 – May 2016

- **Designed and showcased** an electro-mechanical blackout curtain for an interactive model greenhouse
- Received the **People's Choice Award for Distinction in Design** at the Spring 2016 Senior Design Expo—interactive model greenhouse design project **selected from 20+ projects presented at the Expo**

COLORADO SPACE GRANT CONSORTIUM | Boulder, CO

Served as a key contributor for complex manufacturing and mechanical engineering projects, under the NASA-funded Colorado Space Grant Consortium. Worked closely with Air Force Research Lab scientists.

Structures Team Lead, RocketSAT-10 Project

Jan 2014 – Apr 2016

- **Oversaw sub-system team designing and manufacturing structural components** to support material science research payload mission conducted on 2 sub-orbital sounding rocket flights
- **Executed 150+ tests** to optimize shape for copper-ring component and minimize cost
- **Co-authored AIAA paper outlining research findings**—presented paper at AIAA student conference in Wichita, KS
- **Led a team of 3**—collaborated with electrical and science sub-system teams to chart precise project specifications, and positioned components and routed wires effectively to fulfill scope and requirements

Community Outreach Volunteer

Oct 2012 – Jan 2016

- **Spoke to approx. 400 elementary, middle, and high school students** about opportunities available in STEM fields
- Facilitated interactive activities in order to engage youth in science and engineering

Structures Team Lead, Helios II Project

Nov 2012 – Dec 2013

- **1 of only 8 students selected** to contribute to high-altitude balloon payload structure designed to track sun
- Prepared and analyzed payload for testing, integration with NASA facilities, and suggested improvements
- **Reduced project cost \$5,000** by researching optical system components and identifying solutions

OTHER WORK EXPERIENCE

Retail Associate | BARNES & NOBLE | Boulder, CO

Aug 2016 – Jun 2017

- Executed extensive searches and analysis to **uncover the difficult-to-find products** customers were seeking
- **Outpaced peers in transactional efficiency** while successfully achieving impressive upsell results
- Frequently commended by customers for always **going above and beyond** to deliver exceptional service