

# Matthew Zola

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## EDUCATION

University of Colorado at Boulder  
**B.S. Aerospace Engineering**  
**GPA: 4.0 / 4.0**

Boulder, CO  
May 2021 (Anticipated)

## TECHNICAL SKILLS

**Engineering/Design:** Solidworks, Metalworking, Part preparation and assembly  
**Programming Languages:** Java, C#, C++, MATLAB

## ENGINEERING EXPERIENCE

**Volunteer, Structures Team, Maxwell CubeSat Project** 9/2017 - Present  
**Air Force University Nanosatellite Program**  
**University of Colorado, Boulder**

- Coordinated with structures team in maintaining the Solidworks CAD repository for the satellite parts
- Designed and created assembly drawings for the machining and fabrication of the satellite
- Assisted in writing the integration instructions for the satellite's structure
- Developed and refined MATLAB simulations for calculating the thermal expansion of hinges in a space environment, as well as the torque required to deploy the satellite's solar panels

**Assistant Instructor/Student, TeenFlight Program by Airway Science for Kids** 8/2015 - 6/2017

- Built a Van's RV-12 light-sport aircraft with other teens and group of experienced mentors
- Administered installation of fuel lines and engine mounting/configuration
- Learned valuable metalworking and part preparation skills
- Served as assistant instructor for incoming participants in Fall of 2016

## MEMBERSHIPS

**AIAA Design Build Fly, University of Colorado at Boulder** 9/2017 - Present  
**Engineering Honors Program, University of Colorado at Boulder** 8/2017 - Present

## WORK EXPERIENCE

**Courtesy Clerk, QFC - Portland, Oregon** 7/2015 - 3/2016

- Worked as grocery bagger and customer service representative
- Regularly collaborated with other associates to complete required tasks

## HONORS AND AWARDS

**University of Colorado Presidential Scholarship Recipient** Aug 2017  
**International Baccalaureate Diploma Recipient** June 2017  
**National Merit Scholarship Program Scholar** June 2017