

Matthew Zola

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EDUCATION

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