Ashley Zimmerer

San Jose, CA

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MECHANICAL ENGINEER | 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, Visio
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 — **3.3 GPA**

- 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

Sales Engineer, Avaya | San Jose, CA — **Oct 2017 – Present**

- Created workflows to interface with Internet of Things (IoT) sensors as part of a "Lego Smart-City" demonstration
- Delivered presentations to customers from various industries walking them through methods of developing automated workflows to simplify their communications and business processes
- Generated Visio diagrams for a global automotive company to illustrate multiple configurations of communications software at five of their data centers

Ongoing Development & Engineering Projects — **Jan 2015 – Present**

- Created video game themed body panels for an electric go-kart aesthetics competition and race
- Developed and coded an online portfolio website using HTML and CSS
- Conceptualized and manufactured desktop garden planter prototype with automatic pump and LED lighting

Manufacturing Lead, Senior Project at University of Colorado Boulder — **Aug 2015 – May 2016**

- Designed an electro-mechanical blackout curtain for a local Start-Up company's tradeshow 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 30+ projects presented at the Expo

Colorado Space Grant Consortium | Boulder, CO

Served as a key contributor for several complex aerospace 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**

- Led sub-system team of 3 in 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 of induction heating component, saved team hours of shop time
- Co-authored AIAA paper outlining research findings—presented paper at AIAA student conference in Wichita, KS
- Collaborated with electrical and science sub-system teams to chart precise project specifications, 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 to engage young students in science and engineering

Structures Team Lead, Helios II Project — **Nov 2012 – Dec 2013**

- Designed and machined structural components for solar-tracking high-altitude balloon payload
- Prepared payload for testing and integration at NASA facilities, analyzed results and suggested improvements
- Reduced project cost $5,000 by researching optical system components and identifying solutions