Katherine (Katie) Schutt

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GPA: 3.87/4.00

Expected Graduation: May 2024

EDUCATION

University of Colorado Boulder

- Bachelor of Science in Mechanical Engineering
- Minors in Media Production and Leadership Studies
- Engineering Honors Program, Presidents Leadership Class, Boettcher Scholar

Zipling International Inc	South San Erangiago, CA
Mechanical Engineering Intern	June 2023 – September 2023
• Owned the design of an and of line tester for the primery structural someone	June 2025 – September 2025
Modeled NV assembly and prototyped tester architecture with system further	nits in Flationin 2 derivery drone
• Modeled NX assembly and prototyped tester architecture with custom fixtum	lig/interface components for multiple load cases
Mechanical Engineering Intern	May 2022 August 2022
Collaborated with divital explating manyfeaturing electrical controls pointing	May 2022 – Mugust 2022
 Collaborated with digital sculpting, manufacturing, electrical controls, painting animatronics for high-profile clients in the entertainment industry 	, and costuming teams to design and assemble
• Utilized SolidWorks (400+ hrs) to model metal and plastic components for fig	gure armatures and draft engineering drawings
• Manufactured metal parts that shipped in final products and assisted on assem	ably floor with troubleshooting
Sandia National Laboratories	Albuquerque, NM
Virtual Technologies and Engineering Intern	August 2021 – April 2022
 Utilized Unity, C#, and Python to prepare and debug animations of critical nu 	clear safety mechanisms for use in VR
Colorado Space Grant Consortium	Boulder, CO
RockOn! Hardware Team	January 2020 – June 2021
• Built and tested custom PCBs, sensors, and connectors for sounding rocket p	ayloads launched at NASA's Wallops Flight
Facility as part of a national educational workshop which received a NASA Ag	gency Honor Award for Group Achievement
Engineering Project Experience	
Wheelchair-Mounted Frisbee Golf Disc Launcher	Boulder, CO
Electromechanical Engineer and Logistics Manager	August 2022 – May 2023
• Programmed Arduino system that allows a quadriplegic user to launch a disc a	at varying distances using only two buttons
• Sized motor and accompanying electronics to design the schematic, built out of	electronics enclosure, and tested safety limits
• Managed project schedule for a team of five and coordinated/documented int	teractions with clients and vendors
Electric Snow/Skate/Wake Winch	Cupertino, CA & Boulder, CO
Personal Project	March 2021 – May 2023
• Designed, machined, built, and iterated fully functioning winch that coupled I	DC motor to a chain drive and reel to tow riders
• Wrote Matlab script and performed Ansys FEA simulations to select compon	ents and determine factors of safety
• Modeled full winch in Fusion 360 and utilized SolidWorks to create engineering	ng drawings for manufacturing
Drill-Powered Bicycle	Boulder, CO
Manufacturing Engineer	August 2021 – December 2021
• Learned key DFM principles and manufacturing skills after being trained on n	nill, lathe, waterjet cutter, and in MIG welding to
make all custom components for an electric bike with a drill-powered drive tra	ain
High-Altitude Lightning Detection Satellite	Boulder, CO
Electromechanical Engineer	August 2019 – December 2019
• Integrated sensors, heating system, GoPro, and custom PCB to serve as a VL	F radio wave receiver to detect lightning strikes
• Successfully launched experiment to 104,000 ft on a weather balloon and was	invited by professor to join CO Space Grant
Leadership Experience	
CU Boulder Department of Mechanical Engineering	Boulder, CO
Student Apprentice	May 2021 – Present
• Led recitations and individual student meetings as a teaching assistant for und	ergraduate career development course
• Served as photographer, panel facilitator, and logistical/technical support for	industry events hosted by department
Skills	and y control and a graduate
3D Modeling: SolidWorks (CSWA) Siemens NX Fusion360 Unity	
Manufacturing: MIG Welding, Mills, Lathes. Wateriet & Laser Cutting Tanning I	Drills, Saws, Hand Tools, 3D Printing
Programming Languages: C++, MATLAB. Arduino. C#. Python	

Artistic & Business Tools: Adobe Creative Cloud (Photoshop, Premiere Pro, Lightroom), Microsoft Office Suite (Excel, Word) **CERTFICATIONS**

Mechanical Engineer in Training (FE Mechanical Exam), Issued by NCEES April 2023 Certified SolidWorks Associate (CSWA), Issued by Dassault Systems, December 2020