

Tyler Edens

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EDUCATION

B.S. Mechanical Engineering, University of Colorado-Boulder
GPA: 3.8, Dean's List recognition for outstanding performance

May 2019

TECHNICAL SKILLS

SolidWorks, Mechatronics, Design, Manufacturing Processes, Circuits and Electronics, Python, Arduino, MATLAB, Instron Material Testing, 3D Printing, Laser Cutting, Microsoft Office, International Business, Marketing, Communication, Problem Solving, Sales

ENGINEERING PROJECT EXPERIENCE

3-D Maze, EcosySTEM Arts

August 2018-Present

Project Manager

- Creating a STEM and arts toy capable of inspiring learning and creativity amongst bedridden children at Children's Hospital
- Developing, organizing, leading, and tracking a complex engineering design project over the span of 9 months
- Sourcing materials and working directly with local manufacturers for purchased components
- Utilizing SolidWorks, mechanical failure analysis, user research, mechanical testing, and CNC milling to produce an outstanding and original consumer product

Automated Box Distribution Robot, CU-Boulder

January 2018-Present

- Designing and building a robot capable of locating, picking up, and organizing specific boxes in a confined space
- Utilizing mechatronics, computer vision, Arduino, and PCB design to develop a fully automated and functional product

Seeding Machine, EDN, Inc.

July 2018-Present

Design Engineer

- Designed and built a machine capable of drilling, dibbling, seeding, gluing, and packaging seed pods for the SmallGarden 2
- Sourced structural materials, fasteners, motors, actuators, and brackets through online companies and local manufacturers
- Increased efficiency and minimized labor costs of the seeding process

Leveling Bracket, EDN, Inc.

June 2018-July 2018

Design Engineer

- Created a bracket capable of auto-leveling the SmallGarden 2 to account for tolerance issues in the bent wood frame
- Iterated through various prototypes with experienced engineers to produce an aesthetically pleasing and functional product prior to a major retail launch

Drill Powered Vehicle, CU-Boulder

January 2018-May 2018

Systems Engineer

- Designed, conducted failure analysis, manufactured, and raced a go-cart powered by a Makita hand drill
- Responsible for integrating each system of the vehicle (drive chain, braking system, turning system, etc.) and ensuring optimal functionality.

WORK EXPERIENCE

Think Edens, LLC, Boulder, Colorado

December 2018-Present

Founder

- Founded an independent engineering design firm that provides advanced solutions to local engineers, entrepreneurs, and innovators
- Developing specifications with clients, designing in OnShape, sourcing materials/manufacturers, and negotiating finances

EDN, Inc., Boulder, Colorado

June 2018-September 2018

Intern

- Responsible for engineering projects crucial to the success of the company including product design, R&D, sourcing, prototyping, and international business
- Mentored by the CEO and founder of the company in engineering, manufacturing, business, economics, and entrepreneurship

LEADERSHIP

Innovation Action Team, Boulder, Colorado

August 2018-Present

Podcast Director

- Creating opportunities for innovation and entrepreneurship across the CU-Boulder campus by providing students with funding, creative spaces, networking opportunities, and exposure to experienced entrepreneurs
- Director and interviewer for the Students and Startups Podcast delivering the stories of local student and alumni founders to the masses