

JUSTIN SETH

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EDUCATION

University of Pittsburgh – Swanson School of Engineering

BS. in Mechanical Engineering, Minor in Computer Science

Pittsburgh, PA

Class of 2023

- Cumulative GPA: 3.68
- Dean's List all semesters
- Relevant Coursework: Statics and Mechanics of Materials, Material Structures and Properties, Dynamic Systems, Intro to Fluid Dynamics, Introduction to Thermodynamics, Intermediate Programming Using Java, Linear Algebra

WORK EXPERIENCE

Extrude Hone

Mechanical Engineering Internship

Irwin, PA

May 2021 – Aug 2021

- Designed ~190 drawings for Abrasive Flow Machining parts and assemblies
- Developed proficiency in Pro/ENGINEER and Solidworks designing complex 3D parts and 2D drawings
- Developed communication and leadership skills by leading two minor projects amongst fellow intern
- Learned to work well in a collaborative environment and communicate effectively with technicians, managers, and other engineers.

CIMA Technology INC.

Intern

Monroeville, PA

Dec 2020 – Jan 2021

- Revamped an old veterinary intraocular lens by reducing its size by 9% for a better fit in the eye, without jeopardizing strength
- Produced a final approved prototype for the newly introduced lens, and drawings ready for full production
- Assisted in the production of over 5000 intraocular lenses and visco surgical devices for cataract surgery

PROJECTS

Electric Skateboard

- Designed and built an electric skateboard capable of reaching speeds of 29 mph with a 12-mile range
- Reduced cost by over \$600 and weight by 11% compared to professional counterparts
- Skills used included Solidworks, soldering, and C

Drone

Aerial Vehicle

- Designed and built a GPS navigated cinematography drone with live video feed

Electric Bike Kit

- Lead a project developing a universal electric bike kit designed to attach to any bicycle
- Successfully designed a working prototype within one school year capable reaching speeds of 15 mph

LEADERSHIP/STUDENT ACTIVITIES

Delta Chi Fraternity

Executive Member, House Manager, Athletic Coordinator

Pittsburgh, PA

Aug 2020 - Present

- Work alongside 11 executive board members to form strategic plans to shape the future and vision of the fraternity
- Fixed over \$2000 in improvements and repairs
- Organized, coached, and played in three inter-fraternity league teams, including: volleyball, dodgeball, and soccer

Pitt Club Tennis Team

Senior Member

Pittsburgh, PA

August 2019 - Present

- Participate and help lead practices for a team consisting of over 42 members

ADDITIONAL INFORMATION

Skills: Solidworks, Pro/ENGINEER, AutoCAD, Fusion 360, Java, Python, MATLAB, C, LaTeX

Interests: Skiing, Tennis, Golf, Skateboarding, Jazz Piano