

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: 3.73
- Dean's List all semesters
- Relevant Coursework: Dynamic Systems, Intermediate Programming Using Java, Linear Algebra, Differential Equations, Intro to Fluid Dynamics, Introduction to Thermodynamics

WORK EXPERIENCE

ANSYS

Software Quality Assurance Co-op

Canonsburg, PA

Jan 2022 – Apr 2022

- Programmed in Python, Javascript, and XML to develop over 200 new automated tests for Multiphysics software
- Improved debugging skills by analyzing ~10 software bugs and errors every day
- Maintained regressions and communicated closely with development team daily about discovered software bugs

Extrude Hone

Mechanical Engineering Internship

Irwin, PA

May 2021 – Aug 2021

- Developed proficiency in Solidworks and Pro/ENGINEER designing complex 3D parts and 2D drawings
- Developed communication and leadership skills by leading two minor projects amongst fellow interns
- Designed ~190 drawings for Abrasive Flow Machining parts and assemblies

CIMA Technology INC.

Intern

Monroeville, PA

Nov 2020 – Jan 2021,

- Revamped an old veterinary intraocular lens by reducing its size by 9% for a better fit in the eye
- 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

Engineering Documentation Automator

Desktop Application

- Independently designed a desktop app automating engineering documentation using Python
- Reduces engineering documentation time by ~ 80% saving a company \$7000/year in man-hours
- Analyzes and edits excel documents, automates word document completion, and sends automated emails

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 compared to professional counterparts without sacrificing performance
- Skills used include Solidworks, soldering, and C

Drone

Aerial Vehicle

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

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
- Fix over \$2000 in improvements and repairs each semester
- Organized, coached, and played in three inter-fraternity league teams, including: volleyball, dodgeball, and soccer

SKILLS

Mechanical: Solidworks, Pro/ENGINEER, AutoCAD, Fusion 360, soldering, MATLAB

Coding: Java, Python, C, JavaScript, MATLAB, Git, LaTeX, Javascript

