

Victoria Wu

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Education

Northwestern University

Evanston, IL

B.S. Biomedical Engineering

Expected Graduation June 2020

Relevant coursework: Product Design, Medical Imaging, Fluid Mechanics, Thermodynamics, Signals and Circuits

GPA: 3.85/4.0

Skills

Software: SolidWorks, Fusion 360, Python, MATLAB, C++, Swift, Racket, Adobe Creative Cloud, Microsoft Office

Machine and laboratory: Laser cutting, mill and lathe, vacuum forming, gel electrophoresis, UV spectrophotometry, microscopy, immunohistochemistry, 3D printing, CNC

Language: Mandarin, French

Awards: Herman Miller Big 10 Design Challenge Northwestern University 1st place, DaVita Case Competition 1st place, One Book One Northwestern Essay Contest 1st Place, National Merit Scholar 2016

Relevant Experience

Kaleidoscope Innovation & Product Design | Engineering Intern

June 2019 – September 2019

- Applied user-centered design expertise to engineering and prototyping front-end solutions for surgical devices
- Generated CAD and engineering drawings for large-scale device manufacture
- Designed internal mechanisms for devices including surgical clip applicators and ocular drug delivery system
- Built mechanical test fixtures and conducted validation and verification testing for novel medical devices

Northwestern Medicine | Segal Design Institute Summer Intern

June 2018 – September 2018

- Spearheaded the design of kits to educate newly diagnosed diabetes patients on safe at-home treatment
- Constructed solutions to design constraints such as low cost, sanitizability, portability, and modularity
- Manufactured prototypes for patient testing using solid modeling, laser cutting, and vacuum forming

Lake Forest Hospital | Segal Design Institute Summer Intern

June 2018 – September 2018

- Developed a detailed model of daily staff and patient activity by shadowing various hospital staff
- Identified, organized, and communicated pain points in patient throughput using storyboards
- Conceived and implemented pilot program to improve average hospital throughput time by two hours
- Directed design thinking workshop for physicians and staff to streamline future process improvement

PedalCell | Director of Graphic Design

January 2018 – December 2018

- Designed, wireframed, and built a responsive marketing website using user centered design principles
- Conducted user interviews to identify key features to integrate into minimum viable product
- Devised PedalCell pitch materials and appendices for the University of Michigan's Business Challenge which resulted in 1st place out of over 20 teams and a prize of \$15,000

Oregon Health and Science University | Research Assistant

June 2017 – August 2017

- Designed and implemented an experiment to characterize interplay between TGF- β and immune system in squamous cell carcinoma tumors using mice as model organism
- Found significant correlation between TGF- β and mast cell and basophil populations

Northwestern Baja SAE Team | Ergonomics Engineer

September 2017 - Present

- Designed seat and steering wheel for competitive racing vehicle using detailed 3D CAD models
- Manufactured robust vehicle parts and perform unrehearsed repairs during races
- Interviewed other team members to determine weaknesses in part designs and iterate upon previous

Activities & Leadership Experience

Biomedical Engineering Society | Director of Programming & Outreach

April 2018 – April 2019

- Collaborated with biomedical companies to foster corporate relations with students
- Initiated student newsletter and distributed to over 300 students on a monthly basis

Student Alumni Alliance | Marketing Chair

2016 – Present

- Rebranded student organization to cater to evolving student body culture and school atmosphere
- Strategized unique marketing campaigns, resulting in over 400% increase of student turnout at events