Victor Yi

2804 Rio Grande St Apt 207 Austin, TX 78705

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EDUCATION

B.S. Computational & Imaging/Instrumentation Biomedical Engineering | University of Texas at Austin, 2023
Cumulative GPA: 3.3
Major GPA: 3.5
Total Credit Hours: 138
Interested in working on medical devices, biomedical engineering, computational analysis, software engineering

ACADEMIC COURSES

Biomedical Engineering Capstone Design Fall 22 - Spring 23
- Team leader; team of six senior undergraduate biomedical engineers.
- Development of biomedical device team project and project with a faculty advisor and sponsor. (Department of Defense - Stevens Institute US Army covert communications to working dogs)

Development and Analysis in Biomedical Engineering Design Fall 22
- Consider the impact of market, budget, and FDA device requirements and design.
- Follow the medical device design control process outlined by the FDA and ISO.

Computational Methods/Fundamentals for Biomedical Engineering Design Fall 22
- Study of and hands-on experiences with computational methods employed in biomedical engineering research in MATLAB and SOLIDWORKS.
- ECG circuit design, bioinformatics project, MC simulated random walk model.

Experimental Principles of Biomedical Engineering Design Fall 21
- Created a blood flow simulation of carotid arteries with various blockages in SolidWorks.
- Skilled user of device engineering and testing software/tool/equipment such as the tensile test machine (INSTRON).

Biomedical Imaging Modalities Fall 22
- Develop familiarity with the fundamental imaging modalities in modern radiology.
- Computed biomedical imaging modalities in MATLAB.

Biomedical Instrumentation Spring 22
- Learned how to design amplifiers, filters, transducers, and electrodes that are biocompatible.
- Develop and apply biomedical instrumentation devices following SI documentation.

Engineering Biomaterials Spring 22
- Apply biocompatibility and biomaterial design in medical device application and design.
- Research proposal - Hydroxyapatite Coating for Intervertebral Disc Implants

WORK EXPERIENCE

BME LEARNING ASSISTANT & PEER ADVISOR May - Aug 21
The University of Texas at Austin - BME Office
- Primarily helped incoming students with class schedules and worked on the BME website homepage.
- Advised undergraduate students on biomedical engineering coursework.
- Support advising academic projects and daily administrative operations.
- Worked as a peer advisor for incoming and current biomedical engineering students.

STEM & ENGLISH TUTOR May - Aug 20
Korea UNESCO GPV
- Taught high school students English and stem related coursework.
- Prepared specific curriculum for students throughout the summer.

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SOFT & TECHNICAL SKILLS

Medical Device Imaging and Instrumentation

Biomedical Engineering Capstone Design — Fall 22 - Spring 23
Biomedical Imaging Modalities — Fall 22

Python

Udemy "The Modern Python 3 Bootcamp" — Summer 22

- Learned how to make complex HTTP requests to APIs.
- Learned how to automate web crawlers/scrapers and SQL databases.
- SQL database and Web Quote Scraping Project

Fundamentals/Elements of Computing — Fall 20

HTML/CSS and Javascript

Personal Portfolio Website — Fall 22

MATLAB

Computational Methods/Fundamentals — Fall 22
Biomedical Imaging Modalities — Fall 22

RStudio

Computational Methods/Fundamentals — Spring 21

LabVIEW

Computational Methods/Fundamentals — Spring 21

Autodesk Fusion 360

Biomedical Engineering Capstone Design — Fall 22

SOLIDWORKS

Experimental Principles — Fall 21

Microsoft Office

Microsoft Office Specialist - Associate (Excel, Word, Powerpoint) — Spring 23

Texas Inventionworks

3D Printing, Laser Cutting Training — Fall 21

ACTIVITIES & INTERESTS

Organizations
Biomedical Outreach Leadership Team (BOLT)
Biomedical Engineering Society (BMES)

Hobbies
Morning reader, gaming enthusiast, learning fanatic, pianist
Exploring areas of creative-thinking, learning Spanish

Upcoming Goals
Learn C/C++, explore Adobe Creative Cloud, travel to Japan

Scholarships
UT Award University Tuition Grant
Texas and Federal Pell Grant

Languages
English
Korean
Spanish (basic)