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 / cad 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

Python

HTML/CSS

MATLAB

R

LabVIEW

Javascript

C/C++

SOLIDWORKS

Autodesk Fusion 360

Microsoft Office (Excel, Word, Powerpoint)

Medical Device Design

Medical Device Imaging and Instrumentation

3D Printing, Laser Cutting

Problem-solving & troubleshooting
- Resilience, innovative and creative thinking, adaptability and flexibility, level-headedness
- Working on projects individually and as a team member.

Interpersonal communication
- Skills required to effectively communicate, interact, and work with individuals and groups.
- Oral, written, and nonverbal (body language) communication
- Active listening, openness, empathy, assertiveness, responsibility

Technical writing & presentation skills
- BME 333T Engineering Communication
- BME 370 & 371 Biomedical Engineering Capstone Design
- Lab write ups, reports, and presentations
- Extracurricular projects and competitions

Team project experience
- BME Junior Labs & Senior Design
- Communication, conflict resolution, rapport-building and listening, decision making, problem-solving, persuasion and influencing, reliability.

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

Scholarships
UT Award University Tuition Grant
Texas and Federal Pell Grant

Languages
English
Korean
Spanish (basic)