

Victor Yi

2804 Rio Grande St Apt 207 Austin, TX 78705

yivictor2000@gmail.com | [LinkedIn](#) | victorjoonyi.com | (956) 285-6064

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

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

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.

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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)