

Jake Loranger

Biomedical Engineer

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Profile

Biomedical engineering student with a passion for positively impacting people by innovating and developing technologies. Looking for a flexible research and development environment that believes in fostering a people-first community.

Education

Biomedical Engineering,
Bachelor Of Science
University of Maine – Orono, ME
May 2023

Skills

Unity	LabVIEW
Python	Excel
SolidWorks	Swift
C#	iMovie
Statistics	Qualtrics

Qualities

Creative Problem Solver
Adaptable Leader
Ambitious Teammate
Community-Oriented

Interests

Golf	Skiing
Guitar	Intramural Sports
Blockchain	Hacky Sack
Carpentry	PC Building

Professional Experience

Human-Computer Interaction Engineer

VEMI Lab, April 2022 – Present

Research

- Conducted and analyzed a human-subject study to assess ultrasonic haptic perception
- Lead author on multiple accessibility-focused whitepapers currently in the publication review process
- Collaborated with a biotech company to design human-subject studies aimed at evaluating optimal muscle movement

Development

- Initiated the integration of software and hardware elements to create touch-free gesture control and mid-air haptic interfaces
- Optimized hardware for an immersive 360° autonomous vehicle simulation
- Merged descriptive annotations into educational films for increased accessibility

Associations

Lambda Chi Alpha

President

- Served as communication liaison between alumni, university, nationals, and 50 active brothers
- Managed executive board of 11 members to oversee chapter operations and facilitate event planning
- Constructed and supervised multi-thousand dollar budget with financial committee

Philanthropy Chairmen

- Outlined and coordinated Lambda's & Pi Phi's First Annual Pumpkin Bust. Raised \$1000 for Read, Lead, Achieve & 300 lbs. of non-perishables for the on-campus pantry
- Organized 110 volunteering man-hours at Good Shepard Food Bank

Senior Skulls Honor Society

Secretary

- Recorded, transcribed, and distributed weekly meeting minutes

Spiffy – Student Portfolio Investment Club

Market Analyst

- Maintained and modified the energy sector of a \$3.2 million portfolio