

JACKSON LEVINE

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OBJECTIVE

I am a sophomore biomedical engineering and neuroscience student at Tulane University working in a research lab. I aim to apply my understanding of engineering, physical therapy, and neuroscience to the field of neural engineering.

EDUCATION

Tulane University – New Orleans, LA – GPA: 4.0 (2020)

Biomedical Engineering and Neuroscience BS (Minor: Music), plan to apply to Biomedical Engineering BS/MS program junior year

Portsmouth High School – Portsmouth, RI – GPA 4.0, Graduated in the top 3 (2016)

EMPLOYMENT HISTORY

Tulane University Academic Learning Center – (Tutor; September 2017-Present)

- Tutor college students in STEM-related courses

OPT Physical Therapy – Middletown RI – (Physical Therapist's Aid; 2014-Present)

- Instruct, motivate, safeguard, or assist patients practicing exercises or functional activities, under direction of medical staff
- Assist PT in setup and breakdown for treatment

Naval Undersea Warfare Center (NUWC) – Newport RI – (Intern, Undersea Technology Apprentice Program; Jul-Aug 2014)

- Worked as part of a four-person team to design and construct a miniature submarine to fulfill specified tasks
- Programmed the submarine to be controlled by a remote
- Developed an engineering report

RELEVANT EXPERIENCE

School of Science and Engineering Student Government – Tulane University – (Faculty and Alumni Committee Chair; Sept 2017-Present)

- Organize events to increase student-faculty and student-alumni relations
- Communicate with faculty and alumni

Wound Watchers – Tulane University – (Sept 2017-Dec 2017)

- Designed an algorithm to quantitatively predict the probability that a wound will heal and programmed it into MATLAB
- Synthesized research on the healing process and various factors that affect healing
- Integrated feedback from stakeholders including internal medicine and surgery physicians that were interviewed
- Worked in a team to execute all steps of the design process and formally presented the final design to students and faculty

Engineers without Borders – Tulane University – (Vice President; Sept 2016-Present)

- International organization to build a better world through engineering projects that empower communities to meet basic human needs
- Current project is in Laquigo, Ecuador to provide the community with basic water needs
- Also perform community service in the New Orleans community
- Raise money to fund evaluation trips and the engineering project

Truss Project – Tulane University – (Mar 2017-Apr 2017)

- Competed as part of a team to design a truss bridge to resist a specified load using only one sheet of plywood
- Drafted the design on Inkscape and printed the pieces with a laser cutter
- Worked as part of a team to design, analyze, construct and present the bridge

Senior Project – Portsmouth High School, Portsmouth RI – (Jun 2015-May 2016)

- Designed, constructed and tested a hydroelectric pump using wave energy
- Worked under the guidance of senior mentor, NUWC engineer Frank McNeilly

Research on Neurogenesis Using Ultrasound- Tulane University – (Feb 2018-Present)

- Culturing and imaging nerve cells
- Utilizing ultrasound to enhance growth of the nerve cells
- Designing a method to quantify rate of nerve axon growth

HONORS AND AWARDS

- Tulane Presidential Scholarship
- Tulane Honors Program
- Bausch and Lomb Science Award (2016)
- Dean's List (Fall 2016, Spring 2017, Fall 2017)

RELEVANT SKILLS / ATTRIBUTES

Programming: Basic Solidworks, Basic Arduino, Basic MATLAB, Microsoft Office, Basic Laser Cutting

Engineering: Advanced Mathematics, Truss Analysis, Basic Machine Skills

Lab: Cell Culture, Imaging, Focused Ultrasound

Attributes: Hard Working, Motivated, Innovative, Collaborative, Leader