**Shannya Niveyro**

**|**Niveyro101@gmail.com**|** 347-935-2226 **|**Hempstead, NY**|**

**|**www.linkedin.com/in/shannyaniveyro| https://github.com/ShannyaN|

**EDUCATION**

**Columbia University, Coding Bootcamp**

Certification in Full-Stack Web Development *(in progress)*  Expected: April 2023

**Hofstra University, Fred DeMatteis School of Engineering and Applied Science**

Bachelor of Science in Bioengineering Graduation: December 2022

Concentration: Biomechanics, Minor: Mathematics Cumulative GPA: 3.1

**RELEVANT EXPERIENCE**

**Hofstra University,** Hempstead, NY

*Teaching Assistant* September 2022 - December 2022

* Aided the professor in the Engineering Design Lab with the administration of projects and assignments and helped the students through their designing, assembly, and testing of projects.

**Stony Brook University**, Stony Brook, NY

*Research Assistant*  May - September 2022

* Worked in Dr. Gabor Balazsi’s Bioengineering Lab under a post-doctorate and Ph.D. student on distinct projects to help the lab run smoother with equipment
* Projects included a microscope enclosure, CAD files for micropatterns, performing the procedure to create the micropatterns, and the drawing, prototyping, and testing of parts to clean the tips for a Fluid Atomic Force Microscopy machine using Fusion 360, laser cutting, and a CNC machine.

### **Springboard Incubators,** Hempstead, NY

*Program Coordinator*  February - September 2022

* Designed curriculum and taught STEM courses in topics like CAD, circuits, Arduino, etc. to students and for workforce development
* Gained experience building basic circuits with components such as LEDs, ultrasonic sensors, and servo motors
* Spoke with schools to make professional relationships for them to acquire our services

**United Therapeutics Corporation Regenerative Medicine Lab,** Research Triangle Park, NC

*Biomedical Engineering Co-op* July 2021 - January 2022

* Worked on a team with engineers supporting scientists in the decellularization and recellularization of pig lungs
* Learned about equipment, skills, and techniques I mastered with experience including laser cutting, 3D printing, and the assembly of my own designs made in SolidWorks
* Aided in test engineering, electrical work, and wet lab experiments
* Managed projects from design, to assembly, to testing, and finally handed off to scientists

**ACADEMIC PROJECTS**

*Vascularized Islet Organ* September - November 2020

* Designed a VIO and protocol to decellularize rat lungs to use as a scaffold to grow islet cells on and prevascularize the cells *ex vivo;* purpose of the VIO is to reimplant the cells on the lung scaffold for it produce insulin in the body and therefore possibly cure Type 1 Diabetes

*Smart Insulin Patch* March - May 2019

* Researched past insulin patches and designed a longer-lasting insulin patch to treat Type 1 Diabetes
* Designed an experiment to test the improved patch and predicted the results
* Created an AutoCAD drawing for the new design with a greater surface area, longer microneedles, and an increased amount of them

**SKILLS**

* Proficient in SolidWorks, 3D printing (FDM, SLA, and SLS), laser cutting, mechanical skills, and troubleshooting
* Experience using a Computer Numerical Control machine, making micropatterns both digitally in CAD and physically performing the procedure
* Data Analysis
* Teamwork
* Experience with techniques such as Cell Passaging, PDMS production, decellularizing tissue, DNA staining, electrical work, wet lab experiments, and test engineering
* Experience with software such as ImageJ, Matlab, AutoCAD, LabView, COMSOL, Python, and Excel
* Fluent in Spanish

**CAMPUS INVOLVEMENT**

SWE: Society of Women Engineers September 2018-Present

* Attended the National Conference in Anaheim, California in November of 2019

BMES: Biomedical Engineering Society November 2019-Present

CSTEP: Collegiate Science and Technology Entry Program August 2018-Present

ΘΤ: Theta Tau (Professional Engineering Fraternity) February 2020-Present

* Served as Advertisement Chair for Fall 2020
  + In charge of social media for the organization for the Spring 2021.
* New Member Educator for Fall 2022
  + Educated and organized a 10-member pledge class through their New Member Education process and guided them professionally.

**ACADEMIC AWARDS**

Presidential Scholarship September 2018-December 2022

* Selected based on a holistic review of the information supplied on their admission application