

Hannah Marques Maduro

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Education

Northwestern University, Evanston, IL

Anticipated June 2023

Robert R. McCormick School of Engineering and Applied Science

*Bachelor of Science in **Biomedical Engineering** with a minor in **Computer Science***

Course Projects

Design Thinking & Communication II - Northwestern University

Spring 2020

Client: Herbst Produkt's studio head, Walter Herbst

- Collaborated with team to identify white spaces in college essentials market
- Revamped bedside table with additional features that attracted the attention of several college students

Design Thinking & Communication I - Northwestern University

Winter 2020

Client: Shirley Ryan Ability Lab

- Developed working prototype based on client-driven design to facilitate wearing of glove for person with hemiplegia

Computer Science 211 - Northwestern University

Spring 2022

- Learned about game design and engineering. As a final project programmed the game "2048!"

Leadership Experience

Student-Athlete, Northwestern University Varsity Fencing

Fall 2019-Present

- Commit 20+ hours/week to practice, competition, and traveling while balancing full academic course load
- Foster positive relationships with coaches and teammates through daily encouragement and communication

Selected Participant, Kabiller NU for Life Professional Prep Bootcamp

Summer 2020

- Chosen for six-week course to develop professional skills including how to effectively articulate transferrable stories, productive tools for networking using CliftonStrengths assessment
 - Top five strengths include: Competition, Achiever, Significance, Analytical, and Focus
- Networked with NU alumni in a variety of fields to understand career paths and possible employment opportunities

Work Experience

Private tutor, Panama City, Panama

February-September 2019

- Provided tutoring to 40+ middle and high school students in English, Math, Chemistry, Spanish, and Biology
- Created academic plans to accomplish goals and helped students improve their test scores
- Researched learning methods and assessed student needs to enhance achievement at school

Research Assistant, Center For Advanced Regenerative Engineering, Northwestern University

April – June 2021

- Dedicated 9+ hours a week in the lab creating and analyzing samples and cultures to enhance the development of a patented fluid that resembled bone.

Summer Intern, Poatek, Brazil

June – August 2021

- Served as a developer and a Scrum master guiding and leading the team for a digital onboarding project
- Enhanced onboarding process using a data set to develop a product that uses Image Segmentation, OCR, and Face ID to make the onboarding process faster and more convenient for Brazilian banks.

Research Assistant, Functional Optical Imaging Laboratory, Northwestern University

February 2022 – Present

- Worked in a team to develop an optical coherence tomography imaging device
- Performed experiments and build the circuits for the imaging system
- Communicated progress and created weekly plans with the lab director

Summer Intern, EdgeOne Medical, Wheeling, IL

June – September 2022

- Assisted in testing projects within the laboratory, compiling observations, analyzing data, and interpreting results
- Led and performed standard engineering assignments which were a subset of larger development products
- Participated in manufacturing of devices per EdgeOne Medical procedures.

Community Involvement

Active Member, Make A Wish Panama, Panama City, Panama

Spring 2016-Present

- Organized 10+ fundraising activities to help raise approximately \$13,000 to grant wishes
- Led a team of 14+ individuals, while developing a plan to execute a grant wish

Participant, 'Cats Give Back, Evanston, IL

Fall 2019-Present

- Visit local elementary schools for annual ice cream social event, engage with youth in physical activity through Fuel Up to Play 60, and encourage and inspire Girls on the Run participants

Skills & Interests

Technical: C, C++, Python, MATLAB, SQL, DrRacket, Microsoft Word, Excel, and PowerPoint

Language: Spanish (native), English (fluent), Portuguese (fluent), Italian (proficient)

Interests: Reading, Chess, Puzzles, Traveling