

Mateus de Azeredo Valdeirão

matvaldejao123@gmail.com

30 Taupewood Place, The Woodlands, Texas

(346) 334-5020

EDUCATION

University of North Carolina at Chapel Hill, Chapel Hill, NC May 2023

GPA: 3.94, Biomedical and Health Sciences Engineering Major & Data Science Minor

Member of Phi Beta Kappa Honor Society

American School of Campinas (EAC), Campinas, SP, Brazil May 2019

Stanford Pre-Collegiate Summer Institutes Engineering, Stanford, CA, USA June 2018 - July 2018

EXPERIENCE

Lab Assistant at Applied Biomechanics Lab - Chapel Hill, NC September 2021 - Present

Lab Assistant

- Utilized over 10 EMG sensors and 30 reflexive body markers to model gait cycle of test subjects, using different gait initiation and leg movement patterns, in Cortex Software
- Analyzed data in order to understand different gait patterns and higher fall prevalence in older patients to propose different mechanisms to avoid injury

Computer Science Learning Assistant - Chapel Hill, NC August 2021 - December 2021

Learning Assistant

- Guided over 250 students in understanding the logic of Python and scientific programming

Project at Brazilian Nanotechnology National Laboratory August 2017 - March 2018

Project Creator

- Worked in the Brazilian Nanotechnology National Laboratory to design an aerogel of nanocellulose and activated carbon capable of filtering heavy metals from contaminated water
- Used problem-solving skills and adaptation in order to change concentration of components used to allow for a more effective filtration of 5 mg of copper per gram of aerogel

Model United Nations - Campinas/São Paulo/Salvador, Brazil August 2015 - May 2019

Chair & Chief Information Officer

- Determined debate topics and mediated different committee debates with over 50 students each in both state and national landscapes
- Organized both local and state conferences and was responsible for handling logistical and technological operations

COMMUNITY INVOLVEMENT

EAC Sports Camp at Grupo Primavera - Campinas, Brazil August 2017 - May 2019

Master of Ceremonies and Program Organizer

- Responsible for organizing program that hosts 100 children from Grupo Primavera schedule and master of ceremonies
- Charged with finding 2 sponsors for the program by publicizing the project to philanthropic companies and associations

ADDITIONAL INFORMATION

Technical Skills - Python, MATLAB, Onshape, SnapGene, Arduino, Cortex, Excel

Languages - Portuguese (Native), English (Fluent), German (Basic), Spanish (Basic)