

Eden E. Pearson

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EDUCATION

University of Miami

Bachelor of Science in Biomedical Engineering

GPA: 3.7/4.0

Coral Gables, Florida

May 2027

RESEARCH EXPERIENCE

Musculoskeletal Biomechanics Lab

Undergraduate Research Assistant

Coral Gables, Florida

August 2024 – Present

- Calibrate and utilize Open Cap and Vicon motion capture systems to gather data of 24 college athletes
- Organize datasets from experiments by transferring them into Python for analysis and then arranging them in Excel and Minitab, ensuring accuracy and an understandable breakdown of datasets
- Conduct troubleshooting of motion capture data, identifying and resolving technical issues
- Analyze kinematic data to assess injury risk for athletes and present findings to physical therapists

Max Orovitz Exercise Physiology Lab

Undergraduate Research Assistant

Coral Gables, Florida

September 2023 – May 2024

- Worked directly with Parkinson's patients to assist them with velocity-based training regimens using specialized equipment for 60 minutes
- Conducted over 30 literature reviews concerning asymmetry to compare research findings and aided in the technical writing of lab research papers
- Analyzed ultrasounds and other data to quantify results

WORK EXPERIENCE

Dough and The Backyard Wheaton

Barback

Wheaton, Illinois

May 2025 – August 2025

- Supported operations across two high-volume bars by stocking supplies, refilling ice bins, bussing tables, and assisting bartenders during peak hours and live music events
- Provided responsive customer service by answering questions and ensuring bar areas remained clean, organized, and fully stocked throughout service.

Sandler Center for Alcohol and Other Drug Education, University of Miami

Peer Educator

Coral Gables, Florida

August 2024 – May 2025

- Created multiple program plans, media posts using Canva, and surveys to teach strategies and helpful tips for navigating and mitigating risks of alcohol and other drug use
- Facilitated educational sessions for fellow University of Miami students, utilizing interpersonal skills to foster a positive and enthusiastic learning environment and educate over 70 people per program

Topgolf

Barback

Naperville, IL

May 2024 – August 2024

- Demonstrated the ability to handle multiple tasks simultaneously by assisting bars on all three venue levels, ensuring all bar functions and needs, excluding making drinks, were accounted for
- Adapted to dynamic and high-pressure environments by shifting priorities and responsibilities as needed, showing versatility and saving time for bartenders

Menards

Cashier

West Chicago, IL

June 2023 – August 2023

- Provided customer service by communicating product and transaction details, and ensuring efficient processing of payments to optimize the shopping experience
- Handled returns to make sure they ended up in the right location on the sales floor

Truly Engaging

Special Projects Intern

Carol Stream, Illinois

June 2023 – August 2023

- Created videos, pictures, and gifs of company products

Klein Creek Golf Club*Support Staff*

- Served food, bussed tables, and aided in the setup and breakdown of large events
- Assisted the bar with stocking and upkeep

Winfield, Illinois

September 2022 – June 2023

Life Time Fitness*LifeCafe Employee*

- Prepared and served customers' food and beverage orders while maintaining the cleanliness of all spaces
- Conducted opening and closing procedures, and was responsible for money and the register

Warrenville, Illinois

April 2022 – September 2022

Truly Engaging*Sample Maker*

- Assisted in the fulfillment of sorting, packaging, and shipping of products

Carol Stream, Illinois

April 2020 – September 2021

LEADERSHIP EXPERIENCE

Division of Student Affairs, University of Miami*Orientation Fellow*

- Aided in welcoming 3000+ incoming students and family members to campus
- Led spirit and tradition sessions to promote campus engagement
- Led group discussions on important topics and connected new students to campus resources

Coral Gables, Florida

March 2024 – August 2024

ATHLETIC EXPERIENCE

University of Miami Women's Basketball*NCAA Division I Basketball Player*

- Participated as a walk-on athlete for the women's basketball team, with goals to contribute to the team and make those around me better
- Committed to balancing athletics, school, and other extracurriculars as a show of excellent time management, work ethic, and dedication

Coral Gables, Florida

September 2024 – March 2025

EXTRACURRICULAR ACTIVITIES

- Member, Kappa Theta Pi Professional Technology Fraternity *September 2024 – Present*
- Member, University of Miami Club Women's Basketball Team *September 2023 – September 2024, September 2025 – Present*
- Member, Society of Women Engineers *August 2024 – Present*
- Member, Biomedical Engineering Society *April 2024 – Present*

LICENSES/CERTIFICATIONS

- Learning Onshape 3D Modeling
- MATLAB Onramp
- Learning Arduino: Foundations
- Learning Arduino: Interfacing with Analog Devices

HONORS & AWARDS

- Dean's List
- Provost's List
- Presidential Scholar

TECHNICAL SKILLS

- Proficient in Microsoft Office (Excel, Word, PowerPoint)
- Proficient in Minitab
- Proficient in OpenCap
- Proficient in Vicon
- Experienced with SolidWorks
- Experienced with Python
- Experienced with Arduino
- Experienced with MATLAB
- Experienced with Onshape

LANGUAGES

- Conversational in Spanish

REFERENCES

Dr. Francesco Travascio

Principle Research Investigator and Associate Professor, Musculoskeletal Biomechanics Lab, University of Miami

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