

# 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***Coral Gables, Florida**

September 2024 – March 2025

- 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

**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**

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- Conversational in Spanish

## **REFERENCES**

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### **Dr. Francesco Travascio**

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

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