

# Angolina P. Dall'Acqua

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## EDUCATION

*University of Florida, Herbert Wertheim College of Engineering* May 2026  
*B.S. Biomedical Engineering* GPA: 3.67

## RESEARCH AND DESIGN

*BME Clinical Immersion Design Program Internship* Jun 2025 - Present

*Design Intern*

- Assisted at the UF Center for Experiential Learning and Simulation in executing medical simulations using manikins, applying moulage, managing inventory, optimizing equipment design, and gaining hands-on experience with various medical devices.
- Collaborated in a three-student team with a UF Shands physician on a clinical project addressing pulse detection during Pulseless Electrical Activity (PEA) rhythms in emergency room settings.
- Shadowed clinicians and biomedical industry professionals, which enhanced my understanding of the integration between medicine and engineering

*University of Florida Musculoskeletal Biomechanics Laboratory - Dr. Jennifer Nichols* Jan 2024 - Present

*Research Assistant*

- Supported data collection and entry for quantitative sensory testing, motion capture, and ultrasound studies.
- Utilized Vicon software to process motion capture data for a study on CMC thumb osteoarthritis.
- Conducted a project using OpenSim to evaluate how varying scale factors and specificities regarding measurement pairings related to anatomical marker landmarks; scaled static trial models to individual participants and performed inverse kinematics and dynamics to analyze changes in joint angles, forces, and torques based on scale factor variations.

*American Society of Mechanical Engineers (ASME) - Lower-Body Exoskeleton BioDesign*

*Secretary* Aug 2024 - Present

- Prepared and maintained documentation for general, subteam, and executive board meetings to detail progress, goals, and future expectations for facilitating effective planning and performance evaluation of suit.
- Captured and organized event and activity photos to support promotional efforts.

*OpenSim Co-Lead*

Jan 2024 - Present

- Managed a Gantt chart to ensure the team adhered to the project timeline and coordinated weekly meetings.
- Used OpenCap to capture motion data from pilots using the suit for competition.
- Modeled gait cycles and other competition tasks (e.g., crawling, stair climbing) in OpenSim, using pilot data to analyze joint angles, muscle forces, and power output to optimize metabolic rate without compromising task performance.

*Structures Subteam Member*

Jan 2024 - May 2024

- Employed Fusion360 software to drive the design, prototyping, and testing processes of the exoskeleton suit.
- Fostered collaboration with the Electrical and Power Systems sub-teams to ensure cohesive alignment with project goals.

## PROJECTS AND INVOLVEMENTS

- Mentor for Gator Major 4 Major Mentorship Program Oct 2024 - Dec 2024
- SHPEducation Tutor for Society of Hispanic Professional Engineers (SHPE) Sep 2023 - May 2024
- Generational Relief in Prosthetics Member Sep 2023 - May 2024
- Chemistry 1 Teacher Assistant Jan 2023 - May 2023
- UF in South Korea Study Abroad Internship Jun 2024 - July 2024
  - Designed the Medispenser, a user-friendly medicine bottle intended to support elderly individuals in Korea, where a demanding work culture often leaves them to manage alone; the device helps ensure they remember to take their medications.

## HONORS AND AWARDS

Dean's List / President's Honor Roll Fall 2022, Spring 2023, Summer 2024, Fall 2024, Spring 2025

Undergraduate Scholars Program Scholar - UF Center for Undergraduate Research Aug 2025 - May 2026

Arthrex Scholars Program Aug 2024 - May 2025