

# Elisabeth Coller

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## SUMMARY

Passionate about applying biomedical engineering education to advance medical technologies and meaningfully contribute to patients' quality of care. Pursuing academic goals by emphasizing values of communication, promoting team collaboration, and exploring professional curiosities. Especially interested in neural engineering, biomechanics, and tissue engineering.

## EDUCATION

### University of Florida

*Bachelor of Science in Biomedical Engineering*

GPA: 4.00

Expected May 2028

### Université Catholique de Lille, France

*Study Abroad Program, UF Engineering and Arts in Lille*

Completed nine week program covering Physics 2 and Engineering Sketchbook

May. 2025 - Jul. 2025

## PROFESSIONAL EXPERIENCE

### University of Florida OrthoBME Lab

*Lab Member*

Feb. 2025 - Present

- Collaborate with 8 other undergraduates to conduct histological analysis of samples analyzed in UF's REJOIN project to determine the connection between chronic pain and innervation in joints
- Utilize a cryostat to collect over 120 slices from 6 human menisci samples used in the immunostaining process

### Max Planck Florida Institute for Neuroscience

*Research Intern & Lab Technician*

Jun. 2023 - Apr. 2024

- Operated a vibratome to slice 6 mice brains to optimize immunostaining process and structure visualization
- Used fluorescent microscope to collect 48 images from 24 brain slices capturing neural activity within brain regions
- Quantified images using ImageJ software to numerically define the strength of the neural pathways between regions
- Developed a comprehensive presentation for an audience of 80+ individuals to demonstrate the connection between the insular cortex and different brain regions during hedonic feeding behaviors
- Implemented a new inventory software and updated information on 200+ chemicals and lab equipment to facilitate effective inventory control and procurement for 20+ researchers

### Cleveland Clinic

*Student Shadower*

Jan. 2023 - Mar. 2024

- Shadowed 2 doctors in ER and gastroenterology and 4 medical administrative assistants to gain insight into patient care
- Utilized MyChart to organize patient data and improve scheduling efficiency to decrease wait times by 1%
- Performed vital sign assessments, provided customer service, and practiced cleaning protocols for 30+ patients

## LEADERSHIP AND INVOLVEMENT

### Freshman Leadership Engineering Group

*Internal Affairs Committee Co-Director*

Aug. 2025 - Present

- Guide 9 freshmen to create and organize social events, such as field days, that promote connectivity among the new class.
- Work with a team of 20 leadership members to provide professional development resources, including LinkedIn reviews and interview preparation, for 50 freshmen
- Execute large scale events including a retreat and auction-style market to strengthen freshmen engagement

### Internal Affairs Committee Ambassador

Sep. 2024-Apr. 2025

- Collaborated with 8 freshman engineers to plan and host 12+ community-building events, including a banquet, for 42 freshmen and 20 leadership members
- Led a committee meeting through a comprehensive budget proposal for a \$3000 retreat

### Steam Team

*Frame Sub-Team Ambassador*

Sep. 2024-Apr. 2025

- Assisted with the execution of an interactive installation for children ages 5-12 depicting the 5 simple machines, incorporated in 4 architectural designs, for the summer exhibit at the Cade Museum for Creativity & Invention
- Conversed with 6 undergraduates to solidify design and utilize a drill press to construct wooden frame

## RECOGNITIONS & SKILLS

**Recognitions and Awards:** University Scholars Program, Herbert Wertheim College of Engineering Dean's List, Palm City Chamber of Commerce Scholarship, 2024 Teen Big of the Year

**Skills:** MATLAB, Image J, Quartzy, Microsoft Office