

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
- Conversated 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, Quartzzy, Microsoft Office