

Elizabeth Frick

(585) - 478 - 5864 | frick.ellar@gmail.com | Rochester, NY | www.linkedin.com/in/elizabeth-frick | ellafrick.com

Biomedical engineering student seeking summer 2027 internship in bioimaging, bioinstrumentation, or medical devices.

EDUCATION

Rensselaer Polytechnic Institute (RPI), Troy, NY

Expected Graduation 2028

Bachelor of Science in Biomedical Engineering, Minor in Entrepreneurship

4.0 GPA

Relevant Courses: Bioimaging & Bioinstrumentation, Biomechanics, Biomaterials, Intro to Engineering Design, Engineering Graphics & CAD

SKILLS

Technical - Siemens NX (Computer Aided Design); Introductory Python, C++, Arduino/Circuitry

Laboratory - Pipetting, Microscopy, Enzyme Kinetics, Western Blot, Chromatography, Thermogravimetric Analysis, Spectrophotometry

Machining - Lathe Operation, Vertical Milling, Laser Computer Numerical Control

EXPERIENCE

Rensselaer Polytechnic Institute, Troy, NY — *Undergraduate Researcher, Bioelectric Medicine*

September 2026-Present

- Organize & quality-check experimental data to support analysis of neuronal stimulation under varying experimental conditions.

Rensselaer Polytechnic Institute, Troy, NY — *Learning Assistant*

May 2026-Present

- Selected as 1 of 25 students to mentor students & lead seminars on time management & career readiness, enabling early success.
- Presented to over 200 students on the importance of time management, effectively teaching scheduling & time blocking.

University of Rochester, Rochester, NY — *Shadowing Experience, Orthotics and Prosthetics Department*

August 2026

- Observed orthotic & prosthetic procedures, including fitting & adjustment, gaining exposure to medical device clinical applications.
- Witnessed clinician interactions and learned the need for patient comfort in clinical settings.

Bausch & Lomb, Rochester, NY — *Intern, Analytical Chemistry Research & Development*

June - July 2026

- Analyzed degradation of actives via diode array detector chromatography of 100+ samples to determine product composition.
- Utilized thermogravimetric analysis to determine concentrations and perform quantitative analysis.
- Characterized tablet absorbance using UV-Vis spectrophotometry to evaluate effects of manufacturing pressure.
- Performed appropriate documentation, calculations, & analysis of over 250 data points through lab notebook & Excel.
- Professionally presented experimental findings to fellow interns and full-time employees.

PROJECTS

Silent Float CAD Assembly - Successfully modeled and drafted 6 components & assembly via Siemens NX.

DNA Translation Program - Developed a python program converting a DNA input into its corresponding amino acid sequence.

Machined Lightsaber - Utilized lathe, vertical mill, & computer numerical control (CNC) to create metallic lightsabers.

ACTIVITIES & LEADERSHIP

Society of Women Engineers — *Alumni Relations Director, Executive Board*

August 2025 - Present

- Communicate with approximately 150 alumni, promoting socials, professional events, & mentorship via email & social media.
- Started a monthly alumni spotlight, celebrating alumni achievements & inspiring students.
- Collected 35 participants for the mentorship program, supporting members on their educational & professional journeys.

Clarinet — *Member of Rensselaer Wind Symphony*

August 2025 - Present

AWARDS & RECOGNITIONS

Valedictorian, Wayne Central High School | **Eagle Scout**, Scouting America | **Rensselaer Medalist**, RPI | **Dean's List**, RPI