

Jillian N Garzarella

610-850-3752 || jngarzarella@gmail.com || [LinkedIn](#)

PROFESSIONAL EXPERIENCE

Validation Intern

May 2023 – August 2023

Merck

Durham, NC

- Optimized GMP safety by authoring key technical protocols for requalifying manufacturing equipment.
- Aided new production facility by conducting a humidity study on manufacturing incubators.
- Reviewed 700 batch records with deviation management to support a potential health authority notification.
- Drove deliverables by collaborating cross-functionally with technical operations, quality, and validation.

Undergraduate Research Assistant

January 2021 – April 2023

University of South Carolina – Dr. Peter Binev

Columbia, SC

- Applied analytical techniques to process two modes of electron microscopy data.
- Developed over 20 images in MATLAB, presenting them at Discover USC Spring 2022 and 2023.
- Communicated with partners in Manchester and Germany to acquire necessary data samples.
- Authored technical research proposal that secured \$4000 through the Magellan Scholar and Apprentice grants.

Trauma & Extremities Sales Consultant Shadowing

October 2022

Prisma Health Richland Hospital/DePuy Synthes – Josh Sadler

Columbia, SC

- Actively observed a femur fracture fixation and assisted in selecting appropriately sized rods and nails.
- Engaged with operating room personnel, inquiring about the procedure details and their professional experiences.

Service-Learning Medical Trip

March 2022

Capstone Scholars – Dr. Patrick Hickey

Panajachel, Guatemala

- Delivered free care to 60 patients over 5 days under the Capstone Scholars Adventure grant.
- Gathered patient information, performed diagnostics, and developed treatment plans, including pharmaceuticals.
- Participated in post-clinic seminars focusing on the topics of suturing techniques, injections, and pharmacology.

LEADERSHIP

Theta Tau Professional Engineering Fraternity

University of South Carolina

Scribe

December 2022 – December 2023

- Maintain attendance records for chapter events and ensure timely submission of forms to Nationals.
- Present to the executive board to promote the fraternity chapter and actively address suggestions from members.

Academic Chair

August 2022 – December 2022

- Spearheaded academic initiatives including a textbook bank, study sessions, and A's reward programs.
- Managed the academic committee and facilitated communication between the committee and executive board.

EDUCATION

University of South Carolina

Bachelor of Science in Biomedical Engineering

August 2020 – May 2024 with leadership distinction

Minor in Business Administration

GPA: 3.894

Honors & Awards:

- Academic Scholarship – Superlative Award August 2020
- Dean's List Spring 2021, Fall 2021, Spring 2022
- President's Honor Roll Fall 2020, Fall 2022, Spring 2023

Relevant Coursework: Biomedical Engineering Lab, Bioinstrumentation, Senior Design

Certifications: Biosafety Level 2 Lab Principles and Practices, CPR and First Aid

Skills: Technical Writing, Aseptic Laboratory Gowning (Grades C and D), GMP Documentation Systems, cGDP