

Alexandra Gannon

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OBJECTIVE: Biomedical Engineering student seeking summer internship to gain hands-on experience. Strong technical proficiency with work history in an NMR Spectroscopy protein lab. Sufficient experience with several analytical softwares. History of cell culturing and basic laboratory skills.

EDUCATION: WORCESTER POLYTECHNIC INSTITUTE | Worcester, MA

Bachelor of Science in Biomedical Engineering, May 2022

Related Coursework: Organic Chemistry I & II, Molecular Biology, Cell Biology, Intro to Bioprocess Engineering, Intro to Biomechanics, Biomedical Engineering Design, Biomedical Data Analysis and Programming, Transport Analysis in Bioengineering

SKILLS: **Technology Experience:** Osmometer, Nuclear Magnetic Resonance Spectrophotometer, Incubator, UV-Vis Spectrophotometer, Centrifuge, Stir-plate, Fume Hood, Instron 5544, Arduino
Software: CWSA Solidworks Certified, MATLAB, Sparky, Outlook, Microsoft Word, Excel, PowerPoint, Bluehill, GEANT4

PROJECTS: FDP of Antifreeze Protein | UNH | July 2017

Collected and analyzed nuclear magnetic resonance spectroscopy peaks. Created Scientific Poster.

Analysis of Glucose Diffusion Coefficient | WPI | December 2020

Design and conducted protocol to determine the diffusion coefficient of glucose. Created scientific report.

Implantation Device Design | WPI | December 2020

Designed and conducted 3-Point bending test utilizing Instron to analyze characteristics of long bones. Created scientific report.

Epinephrine Delivery Redesign | WPI | March 2021

Designed and prototyped a device for epinephrine delivery. Created scientific report.

Cesium-137 & X-Ray Irradiation Comparison | WPI | May 2021

Conducted research and performed analysis of irradiation techniques through simulations in efforts to campaign for viable irradiation alternatives. Created scientific report.

WORK: **Chief Sales Officer / Chief Innovation Officer | Gompei's Goat Cheese | 2019 - 2021 | *Non-Profit Student Run Business* |** Leadership position in close quarters with other executive officers. Deadline-driven work environment, attention to detail, and ability to multitask. Crafting and executing sales initiatives as well as management and system development.

Lab Assistant | UNH | June-August 2018 | *Externship* | Externship attended at the University of New Hampshire's Durham location under Dr. Krisztina Varga in a protein lab.

ACTIVITIES: WPI Women's Varsity Field Hockey | WPI | 2018-2021