G O R D O N J. G A T E W A Y

1 Forestry Drive ǀ Syracuse, NY 13210 ǀ (315) 470-6900 ǀ gjgatewa@syr.edu

**Skills**

* Familiar with fermentation, protein purification, enzymatic assays, and other biological processes
* Experience drawing and analyzing Process Flow Diagrams as well as Piping and Instrumentation Designs
* Certified by Swagelok for tube fitting safety installation and valve sizing
* Extensive use of MATLAB, SuperPro Designer, PI, and Microsoft Office applications (Excel, PowerPoint, Word)
* Well-developed chemical and biological lab skills through classes, labs, and hands-on professional experiences

**Education**

**SUNY College of Environmental Science and Forestry (ESF),** Syracuse, NY

B.S. *Bioprocess Engineering* | Paper Science Minor*Expected December 2024*

GPA: 3.53; Member of Alpha Xi Sigma (Honor Society)

Awards: Syracuse Pulp and Paper Foundation Paper Science Minor Scholarship and Wegmans Employee Scholarship

Key Relevant Courses: Fiber Processing, Computing Methods, Biofuels/Bioproducts/Biorefineries, Transport Phenomena, Engineering Design Economics, Bioprocess Kinetics and Systems Laboratory, Fiber Materials Recycling & Processes

**Relevant Experience**

**International Paper,** Campti, LA **| *Paper Mill Process Engineering Intern*** *May –July 2023*

* Managed and facilitated cost savings projects in the pulp mill
* Organized and re-built Pi system to properly reflect the process within the mill and make software more intuitive
* Aided full-time engineers and managers with a corporate audit of the pulp mill

**Ichor Therapeutics/Finger Lakes Biotechnology,** Lafayette, NY **| *Biochemistry Intern*** *March–May 2023*

* Produced recombinant protein while following GLP (Good Laboratory Practice)
* Ran lab scale cell-batch fermentations of E. coli cells
* Purified recombinant protein via column chromatography

**WestRock,** Covington, VA **| *Paper Mill Process Engineering Co-Op*** *September –December 2022*

* Collaborated with process engineers/operators in the Fiberline on cost savings and analytical projects
* Executed weekly tests on pulp samples to ensure that automated monitoring was accurate and efficient
* Gained valuable hands on experience while working directly with the process machinery and equipment
* Organized and analyzed data from numerous sources into a single spreadsheet to find relationships and trends

**Buckman Laboratories,** Memphis, TN **| *Biotechnology R&D Intern*** *March –August 2022*

* Conducted a research project on new enzymatic technology to improve activity among other key attributes
* Performed numerous assays and enzyme isolation methods specific to this project to evaluate characteristics of new enzyme solutions/products
* Developed a new enzyme assay method, utilizing robotics, which aids efficiency and customer support
* Communicated directly with vendors to determine if their technology was suitable for Buckman’s objectives

**Lignocellulosic Research,** ESF **| *Student Researcher***  *January –May 2022*

* Performed numerous experiments for lignin, cellulose, extractive, moisture, and ash content to characterize a given biomass feedstock
* Utilized data obtained from experiments to discuss the production of fuel butanol from Lignocellulosic biomass
* Composed review paper and presentation on butanol production from Lignocellulosics based on this data and existing literature

**Poster Presentation**

April 15, 2012. SUNY ESF Spotlight on Research, Syracuse, NY. *Evaluating and isolating enzymes to determine unique characteristics.* **Gordon Gateway.**