Lorenzo Jennings

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SUMMARY

As a current Chemical Engineering student passionate about learning and growth, successfully applied theoretical principles through academic projects and research. Conducted optimization studies on various chemical processes to enhance efficiency and yield. Collaborated effectively with peers and faculty members in a supportive environment that encouraged innovative thinking and solutions. Managed detailed documentation of experiments while adhering to safety protocols. Communicated findings clearly, contributing to research insights that serve the community. Motivated and eager to leverage hands-on experience in a dynamic internship with Innovative Imaging Solutions.

EDUCATION

Bachelor's Degree in Chemical Engineering 2026

University of Rochester GPA: 3.8 *Rochester, NY*

Coursework: *Thermodynamics, Fluid Mechanics, Process Control, Reaction Engineering*

TECHNICAL SKILLS

- **Laboratory Equipment:** HPLC, GC-MS, Spectrophotometer
- **Data Analysis Tools:** MATLAB, Python, Excel
- **Chemical Engineering Software:** Aspen Plus, ChemCAD, ANSYS
- **Research Methodologies:** Qualitative Analysis, Quantitative Analysis, Modeling
- **Process Improvement Techniques:** Lean Manufacturing, Six Sigma, Root Cause Analysis
- **Communication Tools:** PowerPoint, Google Slides, Microsoft Teams
- **Collaboration Platforms:** Trello, Asana, Slack
- **Safety Protocols:** Risk Assessment, PPE Compliance, Hazard Communication
- **Presentation Skills:** Public Speaking, Technical Writing, Visual Aids
- **Software Development Standards:** Agile, Scrum, DevOps

SKILLS

- Chemical Engineering Principles
- Data Analysis
- Laboratory Techniques
- Research Methodologies
- Team Collaboration
- Communication
- Process Improvement
- Equipment Operation
- Statistical Analysis
- Experimental Design
- HPLC
- GC-MS
- Green Chemistry
- Project Management
- Public Speaking
- Problem Solving

EXPERIENCE

Chemical Engineering Research Assistant

January 2026 - Present

University Project *Rochester, NY*

Support ongoing research initiatives within a team atmosphere focused on engineering principles and lab practices. Emphasize safety and accuracy in data collection, striving to contribute valuable insights through collaboration and experimentation.

- Conducted research on chemical reaction optimization, focusing on yield improvements and process efficiency.
- Collaborated with a team to design and execute experiments, utilizing tools such as HPLC and GC-MS for analysis.
- Maintained detailed records of experiments, ensuring compliance with safety protocols and best practices.
- Analyzed data and presented findings to faculty, contributing to ongoing research publications.
- Assisted in the development of process improvement proposals based on experimental results.
- Participated in weekly meetings to discuss project progress and share insights with team members.

Chemical Engineering Intern

June 2025 - December 2025

University Research Lab *Rochester, NY*

Engaged in hands-on laboratory work surrounding polymer synthesis and materials science. Operated equipment crucial to experiments and collaborated with peers to identify new approaches and resolve challenges encountered during trials.

- Assisted in laboratory experiments focused on polymer synthesis, aiming to enhance material properties.
- Supported equipment setup and maintenance, ensuring accurate operation during trials.
- Gathered data and performed statistical analysis to evaluate experimental outcomes and inform project direction.
- Collaborated with fellow interns to brainstorm innovative solutions for challenges encountered during research.
- Communicated project updates and recommendations to supervisors, fostering a collaborative environment.

- Engaged in training sessions to develop technical skills and enhance laboratory safety knowledge.

Team Lead - Chemical Engineering Solutions March 2025

Hackathon Project *Rochester, NY*

Directed a focused effort during a rapidly executed hackathon challenge, collaborating in a high-pressure environment with limited resources. Innovated sustainable chemical solutions that earned recognition from judges.

- Led a team in a 48-hour hackathon focused on sustainable chemical processes, developing a prototype for waste reduction.
- Researched and applied principles of green chemistry to create innovative solutions for real-world challenges.
- Presented project outcomes to a panel of judges, receiving commendations for creativity and feasibility.
- Utilized software tools for modeling chemical processes, enhancing team collaboration and project efficiency.
- Coordinated team efforts and ensured timely completion of project deliverables under tight deadlines.
- Fostered a supportive and motivating environment, encouraging team members to contribute ideas and solutions.

LEADERSHIP & AWARDS

- Dean's List – University of Rochester, 2025
- First Place, University Engineering Competition, 2025

CERTIFICATIONS

- Safety in Chemical Engineering 2026
- Introduction to Chemical Engineering 2025

PROFESSIONAL AFFILIATIONS

- Member, Chemical Engineering Society – University of Rochester
- Volunteer, Local Science Outreach Program

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

Work Status : Authorized to work in United States. No sponsorship required.

REFERENCES

AVAILABLE ON REQUEST