

Kyrie Wang

Chemical Entry Level Engineer

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SUMMARY

Recent graduate in Chemical Engineering with hands-on experience in quality control processes and production analysis through academic projects. Proven ability to troubleshoot complex issues effectively and develop innovative solutions in collaborative team environments. Strong technical writing and presentation skills, coupled with proficiency in Microsoft Office and CAD applications, enable clear communication of findings and recommendations. Eager to contribute to the pulp and paper industry while continuing professional development in a dynamic, growth-oriented role.

EDUCATION

Bachelor's Degree in Chemical Engineering

University of Louisville 🎓 GPA: 3.0 📅 2026 📍 Louisville, KY

Coursework: Fluid Mechanics, Thermodynamics, Process Design, Quality Control

TECHNICAL SKILLS

- **Office Applications:** Microsoft Word, Excel, PowerPoint
- **CAD Software:** AutoCAD, SolidWorks
- **Data Analysis Tools:** MATLAB, Minitab, Python
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Documentation Standards:** ISO 9001, Six Sigma, Lean Manufacturing
- **Research Methodologies:** Experimental Design, Statistical Analysis, Case Studies
- **Quality Control Strategies:** Root Cause Analysis, FMEA, Statistical Process Control
- **Industry Standards:** Pulp & Paper Processing, Environmental Regulations
- **Troubleshooting Techniques:** Diagnostic Testing, Root Cause Analysis, Fault Detection
- **Production Simulation:** MATLAB Simulink, Process Modelling

SKILLS

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|---------------------|-----------------------|------------------------|---------------------------|
| • Quality Control | • CAD | • Research Development | • Presentation Skills |
| • Data Analysis | • Team Collaboration | • Process Improvement | • Project Management |
| • Technical Writing | • Problem Solving | • Public Speaking | • Operational Efficiency |
| • Microsoft Office | • Production Analysis | • Documentation | • Technical Communication |

EXPERIENCE

Quality Control Research Developer

University Project 📅 January 2026 - May 2026 📍 Louisville, KY

Developed methodologies focusing on quality control for paper production, working closely with a team to identify issues and offer actionable improvements. Contributed significantly to project documentation and evaluation processes while utilizing CAD software.

- Developed comprehensive quality control methodologies concentrating on identifying key production challenges.
- Analyzed operational costs and productivity metrics, proposing insights that enhanced overall efficiency.
- Collaborated within teams to document process changes, keeping thorough records in production systems.
- Conducted research on industry standards, integrating latest findings into practical project recommendations.
- Presented outcomes clearly to faculty and peers, showcasing effective communication skills.
- Utilized CAD software for precise design of process layouts, enhancing project presentations.

Chemical Process Analysis Intern

Academic Research 📅 September 2025 - December 2025 📍 Louisville, KY

Engaged in analyzing chemical processes utilized in pulp production, offering essential data and operational suggestions. Developed strong collaborations with faculty and participated actively in lab simulations.

- Researched chemical processes, identifying areas for potential efficiency improvements in production.
- Played a key role in documenting and revising project plans, ensuring compliance with regulations.
- Carried out data analysis which supported significant conclusions leading to optimized operational recommendations.
- Participated in lab simulations testing theoretical models, enhancing understanding of chemical engineering.
- Worked alongside faculty to refine research methods, fostering valuable professional relationships.

- Summarized research outcomes effectively in technical reports, proposing enhancements to workflows.

Pulp and Paper Innovation Developer

Capstone Project 📅 January 2025 - May 2025 📍 Louisville, KY

Led a capstone project focused on innovating processes within the paper manufacturing sector, emphasizing sustainability and collaboration with local industry experts.

- Spearheaded an initiative aimed at innovating production processes, emphasizing sustainable practices.
- Collaborated with teams to analyze existing workflows, highlighting cost-reduction opportunities.
- Documented all activities thoroughly, providing a foundation for future research initiatives.
- Showcased project results to professionals, receiving positive feedback for innovative approaches.
- Established connections with local industry experts, learning about real-world application of concepts.
- Concluded the project by proposing actionable strategies to improve operational effectiveness in the paper industry.

LEADERSHIP & AWARDS

- Dean's List, University of Louisville, 2025
- Best Capstone Project Award, 2025

CERTIFICATIONS

- Microsoft Office Specialist Certification 📅 2026
- CAD Fundamentals 📅 2026

PROFESSIONAL AFFILIATIONS

- President, Chemical Engineering Society, University of Louisville, 2025
- Member, Pulp and Paper Research Group, University of Louisville, 2024

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST