



# Nikolai Kirby

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## SUMMARY

Detail-oriented Mechanical Engineer with over two years of experience, specializing in innovative gas applications for the Food and Beverage sector. Proven ability to navigate projects from initial conceptualization through development and commercialization, consistently exceeding customer expectations. Expertise in mechanical design and economic analysis complements a robust foundation in fluid mechanics and thermodynamics. Collaborative problem-solver with strong communication skills, effectively engaging cross-functional teams to drive innovation. Committed to delivering high-quality results while fostering team success and mentoring junior engineers.

## EXPERIENCE

### Mechanical Engineer

January 2025 - Present

Tech Innovations LLC

Schaumburg, IL

As a Mechanical Engineer, led the development of food freezing systems, optimizing operations across multiple projects. Collaborated with commercial teams to incorporate customer feedback into system enhancements. Designed experimental protocols, driving technological advancements.

- Led innovative design projects that improved efficiency and product quality in food freezing systems.
- Collaborated with marketing and sales teams to gather customer insights and integrate them into product designs.
- Executed comprehensive testing programs, ensuring compliance with industry standards and safety regulations.
- Maintained thorough documentation of experiments and project outcomes for internal stakeholders.
- Presented technical findings and project summaries to management, supporting strategic planning.
- Mentored interns and junior engineers, fostering professional development within the team.

### Junior Mechanical Engineer

June 2023 - December 2024

Green Energy Systems

Naperville, IL

Supported the development of gas application technologies, focusing on enhancing energy efficiency in the Food and Beverage industry. Provided key data insights and assisted in patent preparations through strong teamwork.

- Assisted in developing new gas application technologies aimed at improving processing efficiencies.
- Participated in experiments, analyzing data to optimize engineering processes.
- Contributed to preparing patent disclosures, driving forward innovation initiatives.
- Collaborated across departments to align project goals with business strategies.
- Conducted market viability assessments for new product ideas based on technical research.
- Ensured strict adherence to laboratory safety standards while maintaining equipment.

## LEADERSHIP & AWARDS

- Dean's List, University of Illinois at Chicago, 2021-2023

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

2023

University of Illinois at Chicago | GPA: 3.8

Chicago, IL

**Coursework:** Fluid Mechanics, Thermodynamics, Mechanical Design, Process Evaluation

## CERTIFICATIONS

- Certified Engineering Technician (CET) | 2024

## TECHNICAL SKILLS

- **Computer-Aided Design Software:** AutoCAD, SolidWorks, CATIA
- **Engineering Analysis Tools:** MATLAB, ANSYS, Simulink
- **Process Management Platforms:** Plex, Propel, ERP
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Documentation Tools:** Microsoft Office, LaTeX, Minitab

- **Testing Equipment:** Thermal Imaging Cameras, Flow Meters, Pressure Gauges
- **Data Analysis Software:** Excel, Python, SQL
- **Quality Control Standards:** ISO 9001, Six Sigma, ASME
- **Research Methodologies:** Lean Manufacturing, Agile Development, Design Thinking
- **Safety Regulations:** OSHA Standards, ANSI Safety Standards, EPA Guidelines

**SKILLS**

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- Mechanical Design
- Project Management
- Innovation Identification
- Cross-Functional Coordination
- Fluid Mechanics
- Data Analysis
- Experimental Design
- Cost Analysis
- Thermodynamics
- Technical Reporting
- Compliance Assessment
- Customer Engagement
- Process Evaluation
- Team Collaboration
- Market Research
- Documentation Maintenance

**PROFESSIONAL AFFILIATIONS**

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- Member, Society of Mechanical Engineers
- Volunteer, STEM Outreach Program

**LANGUAGES**

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- English (Native)
- Spanish (Proficient)

**ADDITIONAL INFORMATION**

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

**REFERENCES**

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AVAILABLE ON REQUEST