

NIKOLAI KIRBY

MECHANICAL ENGINEER

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STRENGTHS

- Collaboration**
Fostered teamwork in cross-functional settings. Peers valued contributions for aligning objectives.
- Innovation**
Identified new concepts through extensive R&D efforts. Gained recognition for significant innovations.
- Communication**
Successfully conveyed complex ideas to both technical and non-technical audiences. Enhanced stakeholder engagement.
- Adaptability**
Quickly adjusted project strategies based on feedback. Customers appreciated responsiveness and commitment.
- Problem-solving**
Addressed design challenges creatively. Team often relied on expertise for process improvements.

SKILLS

Mechanical Design

Fluid Mechanics | Thermodynamics

Process Evaluation

Project Management

Data Analysis | Technical Reporting

Team Collaboration

Innovation Identification

Experimental Design

Compliance Assessment

Market Research

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

Tech Innovations LLC | January 2025 - Present | 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

Green Energy Systems | June 2023 - December 2024 | 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

University of Illinois at Chicago | GPA: 3.8 | 2023 | Chicago, IL

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

Cross-Functional Coordination

Cost Analysis

Customer Engagement

Documentation Maintenance

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Mechanical Engineer at Tech Innovations LLC (1.4 Years)

● Junior Mechanical Engineer at Green Energy Systems (1.5 Years)

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

PROFESSIONAL AFFILIATIONS

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

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST