



# Cristian Jenkins

## Engineer I - Mechanical Engineer

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### SUMMARY

Recent Mechanical Engineering graduate with hands-on experience in product design and development through academic projects and internships. Proficient in SolidWorks and knowledgeable about basic mechanical engineering principles, especially sheet metal design. Demonstrated ability to conduct feasibility studies, perform detailed analyses, and communicate effectively with stakeholders. Eager to contribute engineering solutions that foster innovation within a collaborative environment. A commitment to quality and the drive for performance push continuous growth and refined skills, ensuring robust contributions from day one.

### STRENGTHS

- 🗨️ **Effective Communication**  
Transformed complex technical concepts into clear presentations, fostering better teamwork and comprehension among peers.
- 💡 **Innovative Problem Solving**  
Successfully identified alternative solutions during product redesign projects, achieving optimal outcomes beyond expectations.
- 🔄 **Adaptability**  
Demonstrated flexibility by tackling diverse assignments and adjusting strategies according to shifting project demands.
- 👥 **Team Collaboration**  
Promoted a cooperative atmosphere through active participation in brainstorming sessions and group discussions, benefiting overall design efforts.
- 🔍 **Detail-Oriented Approach**  
Employed meticulous attention in reviewing design specifications, consistently meeting or exceeding established quality benchmarks.

### SKILLS

SolidWorks MATLAB

Engineering Analysis

Project Management

Communication

Team Collaboration

Material Properties Dynamics

### EDUCATION

#### Bachelor's Degree in Mechanical Engineering

University of Illinois Urbana-Champaign 🎓 GPA: 3.7 📅 2026 📍 Champaign, IL

**Coursework:** Fluid Mechanics, Thermodynamics, Materials Science, Dynamics

### TECHNICAL SKILLS

- **Design Software:** SolidWorks, AutoCAD, ANSYS
- **Programming Languages:** MATLAB, Python, C++
- **Simulation Tools:** COMSOL, MATLAB Simulink, Pro/ENGINEER
- **Manufacturing Processes:** CNC Machining, 3D Printing, Sheet Metal Fabrication
- **Quality Control:** FDI, Six Sigma, ISO Standards
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Data Analysis Tools:** Excel, Minitab, Tableau
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Statistical Methods:** ANOVA, Regression Analysis, Hypothesis Testing
- **Risk Assessment Frameworks:** Failure Mode Effects Analysis, Root Cause Analysis, Risk Priority Number

### EXPERIENCE

#### Mechanical Design Intern

University Project 📅 January 2026 - May 2026 📍 Champaign, IL

Supported product design and analysis efforts, contributing to the development and enhancement of new designs while ensuring compliance with engineering standards.

- Developed layout concepts and prototypes for innovative product lines, enhancing functionality and aesthetics.
- Conducted feasibility studies and created cost estimates for redesigns, meeting project budget constraints.
- Collaborated on fabricating mockups and testing designs, leading to improved specifications.
- Assisted in drafting engineering change requests based on comprehensive testing feedback.
- Engaged regularly with vendors to clarify specifications, maintaining quality standards throughout.
- Presented findings to faculty and peers, receiving positive feedback for clarity and thoroughness.

#### Research Assistant

Academic Research 📅 September 2025 - December 2025 📍 Champaign, IL

Facilitated research focused on the mechanical properties of materials, leveraging statistical evaluation methods to contribute meaningful insights.

- Analyzed the mechanical properties of various materials, applying statistics for methodical evaluations.
- Assisted in designing experiments and meticulously documented procedures and results for potential publication.

Feasibility Studies

Product Specifications

Mockup Fabrication Prototyping

Statistical Methods

Safety Protocols Design Modeling

## LANGUAGES

English Native

Spanish Proficient

## MY CAREER



● Mechanical Design Intern at University Project (4 Months)

● Research Assistant at Academic Research (3 Months)

● Capstone Project Developer at Course Project (4 Months)

- Created detailed component specifications for experimental setups, ensuring accuracy and consistency.
- Worked closely with faculty to prepare compelling presentations for academic conferences.
- Participated in peer reviews of research papers, offering constructive feedback for improved outcomes.
- Enhanced laboratory protocols contributing to safety and operational efficiency.

### Capstone Project Developer

Course Project 📅 January 2025 - May 2025 📍 Champaign, IL

Led a team in developing a sustainable energy solution, applying mechanical engineering principles to address contemporary challenges.

- Directed a team to engineer a sustainable energy solution, integrating core mechanical principles.
- Utilized SolidWorks for creating detailed 3D models and simulations, optimizing design functionality.
- Conducted market assessments forecasting costs and evaluating project feasibility.
- Showcased project outcomes to an expert panel, gaining commendations for innovative approaches.
- Used effective coordination to achieve project milestones within stringent timelines.
- Compiled and submitted exhaustive reports detailing design and analysis processes.

## LEADERSHIP & AWARDS

- Dean's List, University of Illinois (2024, 2025)
- First Place, College Engineering Design Competition (2025)

## CERTIFICATIONS

- SolidWorks Certified Associate 📅 2026
- OSHA 10-Hour General Industry Certification 📅 2025

## PROFESSIONAL AFFILIATIONS

- Member, Mechanical Engineering Society (2024 – Present)
- Volunteer, Engineering Outreach Program (2023 – Present)

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST