

ZaydKirk

Entry Level Mechanical Engineer, Data Center Facilities Design

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SUMMARY

Entry level Mechanical Engineer with supervised academic experience supporting **mechanical design** concepts, **engineering calculations**, **equipment selection** studies, and coordinated design activities. Completed hands on assignments involving mechanical system evaluation, technical documentation, design reviews, and structured problem solving. Prepared clear design summaries, organized review materials, and presentation content for faculty and project teammates. Applied engineering fundamentals when comparing alternatives against technical requirements and practical constraints. Communicated design assumptions and findings during team presentations, building confidence through careful preparation and open collaboration. Organized drawings, notes, calculations, and review records for smoother project coordination. Brings a thoughtful, service minded approach to **mission critical facilities** design and can contribute reliable analysis, clear communication, and well organized support within collaborative engineering teams.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Missouri-Kansas City 🎓 GPA: 3.5 📅 2026 📍 Kansas City, MO

Coursework: Mechanical Design, Engineering Calculations, Thermodynamics, Fluid Mechanics, Heat Transfer

TECHNICAL SKILLS

- **Mechanical Design Tools:** AutoCAD, SolidWorks, Revit
- **Engineering Analysis:** Thermodynamics, Fluid Mechanics, Heat Transfer
- **Calculation Methods:** Load Calculations, Pressure Drop, Energy Balances
- **Equipment Evaluation:** HVAC Equipment, Pumps, Fans
- **Documentation Tools:** Microsoft Word, Microsoft Excel, PowerPoint
- **Design Coordination:** Drawing Review, Design Markups, Coordination Meetings
- **Facility Systems:** HVAC Systems, Chilled Water, Air Distribution
- **Technical Communication:** Design Summaries, Presentations, Review Notes
- **Problem Solving Methods:** Root Cause Analysis, Alternative Comparison, Constraint Review
- **Project Review Practices:** Faculty Review, Peer Review, Design Validation

SKILLS

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|----------------------------|-----------------------|----------------------------|----------------------|
| • Mechanical Design | • Design Coordination | • Mechanical Systems | • Facility Design |
| • Engineering Calculations | • Problem Solving | • Technical Presentations | • System Evaluation |
| • Equipment Selection | • Communication | • Design Review | • Team Collaboration |
| • Technical Documentation | • Organization | • Engineering Fundamentals | |

EXPERIENCE

Mechanical Engineering Design Project Assistant

University Research Lab 📅 January 2026 - Present 📍 Kansas City, MO

Support supervised **mechanical design** assignments within a university research lab, preparing calculations, equipment evaluations, technical records, and review materials for faculty guidance. Contribute organized analysis and clear presentations that help project teams compare design alternatives and communicate decisions.

- Completed supervised equipment studies using **engineering calculations** and documented technical selection findings.
- Prepared concise design summaries and organized review materials for faculty evaluation and discussion.
- Analyzed mechanical system concepts through structured **problem solving** and **engineering fundamentals**.
- Organized drawings, notes, calculations, and review records for smoother team coordination.
- Presented design findings with teammates, helping faculty follow assumptions, alternatives, and technical results.
- Compared design alternatives against stated requirements and practical project constraints.

Mechanical Systems Design Student Engineer

Capstone Project 📅 September 2025 - December 2025 📍 Kansas City, MO

Contributed to a supervised capstone design effort focused on mechanical systems concepts, calculation records, equipment considerations, and coordinated project communication. Supported teammates through clear documentation, design presentations, and academic evaluation of proposed solutions.

- Developed a **mechanical systems** concept through coordinated design decisions and documented engineering assumptions.

- Performed project calculations and recorded inputs used during mechanical concept development.
- Reviewed **equipment selection** considerations with teammates during structured design discussions.
- Created presentation materials that explained design methods, assumptions, and evaluated results.
- Tested proposed concepts through academic review methods and documented feedback for revisions.
- Demonstrated project findings clearly, strengthening technical **communication** during team presentations.

PROJECTS

Mission Critical Mechanical Concept Study 📅 2026

Good engineering starts with useful questions. Evaluated a hypothetical facility mechanical concept through equipment comparisons, documented calculations, coordinated design notes, and clear presentation materials. Focused on practical constraints, reliable communication, and decisions that support mission critical operations.

Integrated Equipment Selection Review 📅 2025

A thoughtful design can reveal more than a finished answer. Compared mechanical equipment alternatives against stated requirements, recorded assumptions, organized review content, and presented findings for academic feedback. Project work centered on clear reasoning and collaborative decision making.

LEADERSHIP & AWARDS

- Faculty Recognition for Clear Mechanical Design Documentation, University Research Lab, 2026
- Capstone Team Presentation Recognition for Technical Communication, University of Missouri-Kansas City, 2025
- Student Design Leadership, Coordinated peer review materials and supported constructive project discussions, 2026

CERTIFICATIONS

- Autodesk Certified User, AutoCAD 📅 2026
- OSHA 10 Hour General Industry 📅 2026

PROFESSIONAL AFFILIATIONS

- University Research Lab, Mechanical design project participant, Kansas City, 2026
- Mechanical Engineering Capstone Team, Collaborative design contributor, Kansas City, 2025

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST