

Zayd Kirk

Entry Level Mechanical Engineer, Data Center Facilities Design

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Kansas City, MO 64108

STRENGTHS

- Structured analysis**
Applied engineering fundamentals during design reviews, then organized assumptions so teammates could follow each decision.
- Clear communication**
Faculty review sessions became easier to follow after design findings were shaped into concise summaries and presentations.
- Organized execution**
Kept drawings, notes, calculations, and review materials together, giving project discussions a steadier starting point.
- Collaborative design**
Worked through equipment choices with teammates and found that open questions often improved final design thinking.
- Practical problem solving**
Compared alternatives against requirements and constraints, then used feedback to sharpen concepts before academic evaluation.

SKILLS

- Mechanical Design

Engineering Calculations

Equipment Selection

Technical Documentation

Design Coordination

Problem Solving

Communication

Organization

Mechanical Systems

Technical Presentations

Design Review

Engineering Fundamentals

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

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

Team Collaboration

Spanish Intermediate

A donut chart with a white center and a grey outer ring. The center contains the text "11 MONTHS". The grey ring represents approximately 11/12 of the circle.

● Mechanical Systems Design
Student Engineer at Capstone
Project (3 Months)

- 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.

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.

- 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

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

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

REFERENCES

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