

Kaden Mosley

Senior Mechanical Engineer, Critical Facilities

☎ 303-555-7426 ✉ kaden.mosley@example.com 💼 linkedin.com/example/kadenmosley 📍 Denver, CO 80206

SUMMARY

Senior Mechanical Engineer with more than 14 years of experience delivering mechanical design for mission **critical facilities**, data centers, and MEP consulting projects. Holds a Colorado **Professional Engineer** license and applies hands on Revit and CAD expertise across design development, technical review, specifications, RFIs, **construction administration**, **field reports**, bulletins, and addenda. Career growth reflects increasing ownership of coordinated deliverables, quality control, stakeholder communication, schedule commitments, and practical issue resolution. Works closely with multidisciplinary teams, contractors, clients, and project leaders to turn requirements into buildable solutions. Provides clear guidance to developing engineers and keeps documentation organized through each project phase. This background supports dependable technical decisions, constructive collaboration, and consistent delivery for critical facility programs.

EXPERIENCE

Senior Mechanical Engineer, Critical Facilities

Northstar Design Partners 📅 July 2021 - Present 📍 Denver, CO

Leads mechanical design delivery for mission critical and data center work, coordinating MEP platforms, technical reviews, construction support, and team guidance. Owns project quality, documentation, stakeholder alignment, and practical resolution of field and design issues.

- Directed **Revit** design coordination for data center mechanical systems, improving interdisciplinary issue resolution.
- Reviewed **CAD** layouts and specifications for **mission critical** projects, strengthening constructability before release.
- Managed **RFIs** and field reports with contractors, clarifying installation conditions during **construction administration**.
- Prepared **bulletins** and addenda after design reviews, keeping revised requirements clear for project stakeholders.
- Guided engineers through quality checks, code research, and model coordination across concurrent project schedules.
- Built trusted contractor and consultant relationships, helping teams resolve technical interfaces without schedule disruption.

Mechanical Engineer, MEP Consulting

Great Lakes Technical Group 📅 May 2017 - June 2021 📍 Denver, CO

Delivered **mechanical engineering** services for **MEP** consulting assignments, supporting coordinated design, documentation, construction administration, and stakeholder communication. Took increasing ownership of technical reviews, field information, quality control, and team coordination.

- Developed Revit mechanical models for coordinated MEP packages, supporting reliable design documentation.
- Converted project requirements into CAD details and **specifications**, giving teams clearer construction direction.
- Investigated field conditions with contractors, resolving mechanical questions through documented RFIs.
- Recorded site observations in **field reports**, helping project teams track construction progress and open issues.
- Issued design updates through bulletins and **addenda**, preserving alignment across consultants and contractors.
- Shared practical design guidance with peers, becoming a dependable resource during demanding coordination reviews.

Mechanical Engineer, Data Center Projects

Midwest Project Studio 📅 June 2014 - April 2017 📍 Denver, CO

Supported mechanical design and construction phase services for data center and MEP consulting projects. Coordinated models, calculations, specifications, field observations, and stakeholder feedback while building stronger ownership of project execution.

- Produced coordinated CAD and Revit deliverables for data center mechanical systems, supporting construction readiness.
- Checked specifications against design intent, reducing ambiguity during consultant and contractor reviews.
- Responded to RFIs with concise technical direction, helping field teams maintain installation momentum.
- Collected field information during **construction administration**, giving designers usable evidence for issue resolution.
- Supported bulletins and addenda preparation, keeping project changes traceable across issued documents.
- Worked with senior engineers and contractors on interfaces, building productive professional relationships through shared problem solving.

Mechanical Engineer, MEP Design

Riverbend Design Services 📅 June 2012 - May 2014 📍 Denver, CO

Contributed to early career MEP consulting assignments through mechanical layouts, documentation, coordination, field research, and technical support. Built a practical foundation in CAD, specifications, construction administration, and communication with project stakeholders.

- Created CAD mechanical layouts under senior engineer direction, developing accurate design documentation.
- Supported Revit coordination reviews, identifying mechanical conflicts before consultant package submission.
- Organized specification information for project updates, helping teams maintain consistent technical requirements.
- Assisted with RFI responses and **field reports**, connecting office design work with construction conditions.
- Participated in **construction administration** observations, recording actionable details for senior project staff.

- Collaborated with multidisciplinary peers, gaining trusted relationships that supported smoother project delivery.

PROJECTS

Mission Critical Cooling Coordination 📅 2024

Coordinated mechanical design documentation for a mission critical facility, connecting Revit models, CAD details, specifications, field information, and stakeholder reviews.

Data Center Construction Administration 📅 2022

Supported data center construction administration through RFIs, field reports, bulletins, addenda, contractor communication, and disciplined document review.

LEADERSHIP & AWARDS

- Professional Engineer license recognition, Colorado, 2018.
- Senior engineering progression recognized through expanded project ownership and team guidance.
- Trusted technical resource for multidisciplinary coordination and contractor issue resolution.

EDUCATION

Bachelor's Degree in Mechanical Engineering

Colorado State University 🎓 GPA: 0 📅 2012 📍 Fort Collins, CO

Coursework: Thermodynamics, Fluid Mechanics, Heat Transfer, Mechanical Systems Design

CERTIFICATIONS

- Professional Engineer, Colorado 📅 2018
- Professional Engineer License, Mechanical Engineering 📅 2018

TECHNICAL SKILLS

- **Mechanical Design:** Mechanical systems, HVAC design, equipment layouts
- **Building Information Modeling:** Revit, model coordination, clash review
- **Computer Aided Design:** CAD, drafting, detail development
- **Mission Critical Facilities:** Data centers, critical facilities, reliability planning
- **MEP Consulting:** MEP coordination, multidisciplinary design, consulting delivery
- **Construction Administration:** RFIs, field reports, contractor coordination
- **Technical Documentation:** Specifications, bulletins, addenda
- **Engineering Licensure:** Professional Engineer, Colorado license, mechanical engineering
- **Quality Control:** Design checking, document review, revision control
- **Project Coordination:** Stakeholder reviews, interface resolution, schedule coordination
- **Field Engineering:** Site observations, field information, installation review
- **Team Leadership:** Supervision, mentoring, technical guidance

SKILLS

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|-------------------------|------------------|-------------------------------|----------------------------|
| • Mission critical | • Revit | • Construction administration | • Mechanical design |
| • Data centers | • CAD | • Field reports | • Stakeholder coordination |
| • MEP consulting | • Specifications | • Bulletins | • Team supervision |
| • Professional Engineer | • RFIs | • Addenda | |

PROFESSIONAL AFFILIATIONS

- Professional engineering community participant focused on mechanical design practice and facility delivery.
- MEP consulting network contributor supporting peer collaboration, mentoring, and technical knowledge sharing.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST