

## Senior Mechanical Engineer, Critical Facilities

## STRENGTHS

Connected Revit, CAD, specifications, and stakeholder reviews on demanding facility work. Teams valued clear issue resolution.

Handled RFIs, field reports, bulletins, and addenda with calm follow through. Contractors received usable direction.

Applied mechanical design experience across data center work. Early coordination helped protect reliability and schedule.

Supported developing engineers through reviews and practical feedback. Peers frequently sought help with difficult details.

Built working relationships across consultants, contractors, and clients. Open communication kept technical decisions moving.

## LANGUAGES

Native

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.

- 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.

- 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.

## MY CAREER



● Senior Mechanical Engineer, Critical Facilities at Northstar Design Partners (5.2 Years)

● Mechanical Engineer, MEP Consulting at Great Lakes Technical Group (4.1 Years)

● Mechanical Engineer, Data Center Projects at Midwest Project Studio (2.8 Years)

● Mechanical Engineer, MEP Design at Riverbend Design Services (1.9 Years)

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

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- **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

## PROFESSIONAL AFFILIATIONS

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

## ADDITIONAL INFORMATION

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

## REFERENCES

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AVAILABLE ON REQUEST