

Kaden Mosley

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SUMMARY

PE registered **mechanical engineering** executive with 19 years of **HVAC design experience** across commercial and institutional building programs. Leads **mechanical** and plumbing delivery, office performance, staffing, mentoring, technical quality, project governance, and **client relationships**. Combines hands on HVAC expertise with practical decisions across CAD, Revit coordination, codes, LEED informed design, quality control, schedules, budgets, proposals, presentations, and negotiations. Guides managers and engineers through technical reviews, performance development, project debriefs, and complex design choices. Builds clear accountability across multidisciplinary teams while maintaining traceable engineering records and dependable project outcomes. Brings a steady focus on sound design, constructive collaboration, and business value across each stage of delivery.

EXPERIENCE

Vice President, Mechanical Engineering

January 2022 - Present

Prairie MEP Partners

Naperville, IL

Leads multidisciplinary mechanical and plumbing delivery, office operations, staffing, client development, **technical quality**, and project governance. Guides managers and engineers through design decisions, reviews, proposals, negotiations, schedules, budgets, and performance development.

- Directed **HVAC** and plumbing design reviews using CAD and Revit coordination for consistent project quality.
- Established traceable **technical decisions**, assumptions, and documentation across multidisciplinary building programs.
- Led **staffing**, mentoring, and performance development for **mechanical engineering** managers and project teams.
- Guided client presentations, proposals, scope negotiations, and fee discussions that supported lasting relationships.
- Reviewed project budgets, schedules, risks, and delivery goals with technical and business stakeholders.
- Directed **project debriefs** that converted field observations and review feedback into repeatable practices.

Mechanical Engineering Director

June 2017 - December 2021

Midwest Integrated Design Group

Chicago, IL

Directed a mechanical and plumbing design group supporting HVAC projects, quality control, client service, staffing, technical decisions, and delivery accountability. Connected team development with dependable design documentation, schedule control, and business priorities.

- Led mechanical and **plumbing** design teams through scope definition, technical reviews, and delivery planning.
- Applied **CAD** and **Revit** workflows to coordinate HVAC layouts with architectural and building disciplines.
- Managed staffing plans, **mentoring**, performance discussions, and technical growth for engineers and designers.
- Evaluated codes, LEED requirements, constructability, and project constraints before approving design approaches.
- Presented technical findings and recommendations to clients, project managers, and multidisciplinary stakeholders.
- Used **project debriefs** to improve documentation, **quality control**, and future delivery decisions.

Senior Mechanical Project Manager

March 2012 - May 2017

Great Lakes Engineering Collaborative

Evanston, IL

Managed complex HVAC and plumbing projects from scope definition through technical delivery, client coordination, budget control, and closeout. Balanced engineering quality with practical schedules, clear **communication**, and accountable project execution.

- Managed **HVAC** and plumbing project scopes using documented requirements, design criteria, and delivery plans.
- Coordinated CAD production, Revit exchanges, technical reviews, and interdisciplinary design issue resolution.
- Tracked project **budgets** and **schedules** while resolving technical risks before they affected delivery.
- Explained engineering findings to clients, architects, contractors, and internal project stakeholders.
- Applied mechanical **codes** and **LEED** requirements during design reviews for commercial building programs.
- Captured project lessons during debriefs and carried useful decisions into later design work.

Mechanical Engineer

July 2007 - February 2012

Northstar Building Engineering

Schaumburg, IL

Produced HVAC and plumbing designs under PE oversight for commercial and institutional projects. Built early expertise in mechanical analysis, CAD documentation, code review, interdisciplinary coordination, testing support, and clear engineering communication.

- Produced **HVAC** and plumbing layouts in CAD under PE oversight for commercial building projects.
- Supported Revit coordination by resolving mechanical model issues with architectural and engineering teams.
- Documented design assumptions, calculations, code references, and review responses for project records.
- Checked **mechanical systems** against requirements, physical constraints, and practical construction conditions.
- Communicated technical findings through drawings, markups, meeting notes, and design review discussions.
- Applied feedback from senior engineers to improve design **quality**, documentation, and project consistency.

PROJECTS

Regional HVAC Quality Program 2024

Created a shared review approach for HVAC and plumbing teams across active building programs. Clear records made technical decisions easier to revisit, discuss, and apply on later projects.

LEED Informed Building Portfolio 2021

Guided mechanical design choices around LEED requirements, practical energy goals, and coordinated documentation. Teams gained a clearer path from early concepts through technical review.

LEADERSHIP & AWARDS

- Professional Engineer recognition, Illinois registration maintained through sustained engineering practice and technical accountability.
- LEED Accredited Professional distinction, earned in 2011 through demonstrated knowledge of sustainable building design.
- Mechanical engineering leadership recognition, earned through mentoring, client service, and dependable project delivery.

EDUCATION

Bachelor of Science in Mechanical Engineering

2007

University of Illinois Chicago GPA: 0

Chicago, IL

Coursework: HVAC design, mechanical systems, plumbing systems, engineering analysis

CERTIFICATIONS

- Professional Engineer, Illinois Active
- LEED Accredited Professional 2011

TECHNICAL SKILLS

- HVAC Design Tools: CAD, Revit, HVAC design
- Mechanical Systems: Air distribution, heating systems, cooling systems
- Plumbing Systems: Domestic water, sanitary drainage, storm drainage
- Engineering Codes: Mechanical codes, plumbing codes, building codes
- Sustainable Design: LEED, energy efficient design, sustainable building design
- Project Controls: Budgets, schedules, scope management
- Quality Management: Quality control, technical reviews, design documentation
- Leadership Practices: Staffing, mentoring, performance evaluation
- Client Development: Proposals, presentations, negotiations
- Delivery Methods: Project debriefs, requirements definition, design coordination

SKILLS

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|--------------------|-----------------|----------------------|-------------------|
| HVAC design | Revit | Staffing | Negotiations |
| Mechanical systems | Building codes | Mentoring | Project budgets |
| Plumbing systems | LEED | Client relationships | Project schedules |
| CAD | Quality control | Proposal strategy | |

PROFESSIONAL AFFILIATIONS

- Professional engineering community participant, sharing practical HVAC and plumbing knowledge with design peers.
- Building systems industry participant, supporting stronger coordination among engineers, architects, contractors, and clients.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST