

Abraham Mason

Vice President, Mechanical Engineering

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STRENGTHS

-  **Technical direction**
During complex commercial designs, clear system decisions helped teams resolve issues sooner and gave clients confidence in delivery.
-  **Team mentoring**
Engineers received direct coaching through reviews and development planning, then became more confident handling difficult design questions.
-  **Quality improvement**
A practical review rhythm brought consistency to documents and helped project teams catch problems before client submission.
-  **Client communication**
Technical presentations translated design choices into useful decisions, building trust during proposals and active project work.
-  **Workload planning**
Staffing discussions connected project priorities with available engineering capacity, keeping delivery conversations grounded and actionable.

SKILLS

- HVAC Design
- Mechanical Systems
- Plumbing Systems
- LEED Requirements
- PE Registration
- CAD
- Revit
- Project Oversight
- Staff Mentoring
- Quality Reviews
- Workload Planning
- Client Relations
- Business Development
- Mechanical Codes
- Technical Direction

SUMMARY

Mechanical engineering executive with more than 20 years of experience leading **HVAC design** organizations, delivering complex commercial building systems, and advancing mechanical and plumbing engineering practices. Licensed Professional Engineer with hands on expertise in HVAC systems, mechanical and **plumbing design**, applicable codes, LEED requirements, CAD workflows, and Revit coordination. Career progression from senior engineering delivery into organizational leadership includes mentoring technical staff, improving quality review processes, guiding workload planning, supporting **professional development**, and resolving design challenges. Client relationships, proposals, technical presentations, project strategy, budget awareness, and schedule control remain central to successful delivery. Brings a practical leadership approach grounded in sound engineering judgment, clear communication, team collaboration, and dependable **project oversight** that supports strong client outcomes and sustainable business growth.

EXPERIENCE

Director, Mechanical Engineering

Sterling MEP Solutions  January 2021 - Present  Chicago, IL

- Lead **mechanical engineering** teams supporting commercial HVAC and plumbing design, quality reviews, staffing plans, client discussions, proposals, and technical delivery. Provide direction across project priorities, engineering standards, professional development, and business growth efforts.
- Led HVAC and plumbing teams through commercial design delivery, improving coordination across project disciplines.
 - Established **quality** review practices for consistent engineering documents and dependable client deliverables.
 - Mentored engineers through design reviews, technical coaching, and **professional development** planning.
 - Guided teams through **mechanical** codes, **LEED requirements**, and industry standards during project decisions.
 - Supported client discussions, **proposals**, and technical presentations for new business opportunities.
 - Coordinated staffing plans and priorities, helping project teams maintain delivery schedules.

Senior Mechanical Engineer, Building Systems

Vertex Building Systems  June 2014 - December 2020  Milwaukee, WI

- Managed HVAC design activities for large building projects, coordinating multidisciplinary teams, CAD production, Revit workflows, plumbing reviews, budgeting, scheduling, client presentations, and junior engineer development.
- Managed **HVAC design** activities for large building projects with multidisciplinary delivery teams.
 - Developed **mechanical systems** through CAD tools and coordinated **Revit** based workflows.
 - Reviewed plumbing and **mechanical** calculations for compliance, constructability, and practical field execution.
 - Supported project budgeting, scheduling, and technical issue resolution during design delivery.
 - Presented design recommendations to clients and internal stakeholders during key project decisions.
 - Trained junior engineers on engineering standards, documentation quality, and review procedures.

Mechanical Engineering Consultant, Project Delivery

Midwest Building Design Practice  January 2006 - May 2014  Chicago, IL

- Delivered **mechanical engineering** support for commercial building projects, developing HVAC and plumbing designs, coordinating technical documentation, applying **applicable codes**, and building the foundation for later engineering leadership.
- Developed HVAC concepts for commercial facilities using **CAD** based engineering workflows.

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



- Director, Mechanical Engineering at Sterling MEP Solutions (5.7 Years)
- Senior Mechanical Engineer, Building Systems at Vertex Building Systems (6.5 Years)
- Mechanical Engineering Consultant, Project Delivery at Midwest Building Design Practice (8.3 Years)

- Coordinated **mechanical** layouts with architectural and structural teams during design development.
- Applied applicable mechanical codes to system selections, calculations, and construction documents.
- Reviewed plumbing system documentation for coordination, constructability, and project requirements.
- Resolved design questions through clear technical recommendations and stakeholder communication.
- Built client confidence through responsive project support and practical engineering judgment.

PROJECTS

Commercial HVAC Quality Program 📅 2022

Created a repeatable review approach for HVAC and plumbing documentation. Improved consistency across engineering deliverables, supported mentoring, and gave project teams clearer checkpoints before client submission.

Revit Mechanical Coordination Initiative 📅 2019

Coordinated Revit based mechanical workflows across multidisciplinary building teams. Reduced design friction through clearer modeling practices, direct issue resolution, and stronger review discipline.

LEADERSHIP & AWARDS

- Recognized for advancing mechanical design quality through consistent review practices and practical technical direction.
- Selected to mentor engineering staff through design reviews, coaching, and professional development planning.
- Trusted with client presentations, proposal support, and technical strategy for commercial building opportunities.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Wisconsin Madison 🎓 GPA: 0 📅 2006 📍 Madison, WI

Coursework: HVAC systems, plumbing design, engineering mechanics, thermodynamics

CERTIFICATIONS

- Professional Engineer License, Mechanical Engineering 📅 2006
- Leadership Development Certificate 📅 2018

TECHNICAL SKILLS

- **HVAC Design:** Air distribution, heating systems, cooling systems
- **Plumbing Engineering:** Domestic water, sanitary drainage, storm drainage
- **Mechanical Systems:** Hydronic systems, ventilation systems, equipment selection
- **Design Software:** CAD, Revit, construction documentation
- **Building Codes:** Mechanical codes, plumbing codes, applicable standards
- **Sustainable Design:** LEED requirements, energy efficiency, green building design
- **Project Controls:** Budget control, schedule control, workload planning
- **Quality Management:** Design reviews, document reviews, quality processes
- **Business Development:** Proposals, technical presentations, client relationships
- **Engineering Leadership:** Technical direction, staff mentoring, professional development

PROFESSIONAL AFFILIATIONS

- Professional engineering community participant focused on HVAC, plumbing systems, codes, and responsible building design.
- Commercial building design collaborator supporting shared standards, peer learning, and stronger project delivery.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST