

Abraham Mason

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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

January 2021 - Present

Sterling MEP Solutions

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

June 2014 - December 2020

Vertex Building Systems

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

January 2006 - May 2014

Midwest Building Design Practice

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

2006
Madison, WI

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

SKILLS

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

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.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST