

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

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

Mechanical Codes

Technical Direction

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)

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 📅 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