

Joaquin Garner

Senior Mechanical HVAC Engineer, Commercial HVAC Systems

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SUMMARY

Senior Mechanical HVAC Engineer with 12 years delivering commercial and institutional HVAC solutions across complex project environments. Leads technical execution, coordinates multidisciplinary engineering phases, and reviews calculations, drawings, and specifications for quality and constructability. Guides engineers through design decisions, resolves difficult mechanical issues with practical analysis, and supports client presentations and proposals with clear technical judgment. Daily work connects Revit, AutoCAD, MicroStation, **engineering analysis**, **project coordination**, and **construction support** with organizational goals for reliable delivery. Experience includes QA/QC practices, professional engineering standards, stakeholder communication, and team mentorship. This background supports thoughtful decisions, consistent **project performance**, and stronger collaboration across architects, contractors, project managers, and engineering disciplines.

EXPERIENCE

Senior HVAC Engineer

Keystone Mechanical Advisors 📅 January 2021 - Present 📍 Philadelphia, PA

Leads **HVAC engineering** delivery for complex commercial projects, guiding design reviews, technical coordination, quality control, mentorship, client communication, proposals, and construction support. Connects engineering analysis with practical project decisions while supporting multidisciplinary teams and reliable delivery.

- Led commercial HVAC design reviews using Revit, **AutoCAD**, and **MicroStation** for coordinated project delivery
- Reviewed calculations and technical documents through QA/QC checks, reducing design discrepancies before issue
- Mentored engineers during technical reviews, building consistent **engineering practices** across project teams
- Coordinated architects, clients, contractors, and project managers through complex multidisciplinary design phases
- Resolved mechanical system issues through engineering analysis, supporting constructible and reliable design decisions
- Supported **proposals** and **presentations** with clear HVAC recommendations, strengthening stakeholder confidence in project approaches

PROJECTS

Commercial HVAC Design Coordination 📅 2024

Coordinated multidisciplinary HVAC design reviews for commercial facilities, connecting engineering analysis, drawing quality, stakeholder input, and construction support. Clear communication helped teams resolve technical questions before delivery.

Institutional Mechanical Systems Review 📅 2023

Reviewed institutional mechanical documentation with a practical focus on QA/QC, technical consistency, and design improvement. Collaborative discussions helped engineers address discrepancies and present sound recommendations.

LEADERSHIP & AWARDS

- Recognized by project teams for dependable technical review and practical HVAC problem resolution.
- Selected to mentor engineers through design reviews, engineering analysis, and professional practice discussions.
- Trusted to support client proposals and presentations with clear mechanical engineering recommendations.

EDUCATION

Bachelor's Degree in Mechanical Engineering

Pennsylvania State University 🎓 GPA: 3.5 📅 2013 📍 University Park, PA

Coursework: Thermodynamics, Fluid Mechanics, Heat Transfer, Mechanical Systems Design

CERTIFICATIONS

- Professional Engineer License 📅 2021
- Mechanical Engineering Quality Review Training 📅 2020

TECHNICAL SKILLS

- **HVAC Design:** Commercial HVAC, Institutional HVAC, Mechanical Systems
- **Design Software:** Revit, AutoCAD, MicroStation
- **Office Software:** Microsoft Office, Word, Excel
- **Quality Control:** QA/QC procedures, Design review, Technical documentation
- **Engineering Analysis:** Engineering calculations, Mechanical analysis, Design improvement
- **Project Delivery:** Project coordination, Project performance, Construction support

- **Leadership:** Technical leadership, Team mentorship, Collaborative leadership
- **Stakeholder Tools:** Client presentations, Proposals, Contractor coordination
- **Engineering Practices:** Professional engineering practices, Mechanical design, Technical execution
- **Building Sectors:** Commercial projects, Educational projects, Institutional projects

SKILLS

- HVAC Engineering
- QA/QC
- Design Coordination
- Project Performance
- Revit
- Project Leadership
- Engineering Analysis
- MS Office
- AutoCAD
- Mechanical Systems
- Team Mentorship
- Professional Engineering
- MicroStation
- Technical Review
- Proposal Support

PROFESSIONAL AFFILIATIONS

- Professional Engineering community participant focused on sound mechanical design and public safety.
- Mechanical engineering peer network contributor, sharing practical review methods and project lessons.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST