



# Spencer Nash

## Senior Mechanical Design Engineer

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### SUMMARY

Accomplished Senior Mechanical Design Engineer with over 7 years of experience in MEP design and consulting. Expertise in HVAC systems within public safety, educational, and commercial sectors. Proven ability to lead projects, mentor junior staff, and collaborate effectively with clients to deliver innovative design solutions. Committed to professional development and continuous improvement in engineering practices, Spencer seeks to leverage experience in system engineering and project leadership to advance organizational goals while enhancing community safety and comfort through effective designs.

### STRENGTHS

- Client Collaboration**  
Fostered strong client partnerships by facilitating open communication; clients appreciated clear project updates.
- Project Leadership**  
Guided cross-functional teams through complex projects, often becoming a key resource for problem-solving.
- Technical Expertise**  
Applied advanced HVAC knowledge successfully in performance analytics, increasing system reliability for key projects.
- Regulatory Acumen**  
Ensured compliance with relevant standards diligently; consistently impressed peers with attention to detail.
- Continuous Learning**  
Actively sought out training programs that enriched mechanical design practices for personal and professional growth.

### SKILLS

- HVAC Design AutoDesk Revit
- Energy Efficiency Analysis
- Client Relations
- Project Management
- Construction Administration
- Team Leadership
- Stakeholder Communication

### EXPERIENCE

#### Senior Mechanical Design Engineer

Innovative Engineering, Inc. 📅 January 2022 - Present 📍 Chicago, IL

Lead HVAC design initiatives on multiple commercial projects while ensuring compliance with established industry standards. Manage project timelines and maintain client relationships to foster long-term collaboration.

- Oversaw the design and implementation of HVAC systems for a large-scale commercial facility, improving energy efficiency.
- Generated detailed calculations and specifications, significantly enhancing both accuracy and clarity of project documentation.
- Facilitated site observations, aligning contractor output with original design intentions.
- Mentored junior engineers, enabling skill development and fostering a culture of teamwork.
- Engaged directly with clients through presentations, simplifying complex engineering concepts for non-technical audiences.
- Adopted advanced design methodologies that streamlined project delivery processes.

#### Mechanical Design Engineer

Creative Design Group 📅 June 2018 - December 2021 📍 Chicago, IL

Specialized in delivering accurate HVAC designs for educational and public safety applications. Partnered with interdisciplinary teams to fulfill project requirements and drive success across various projects.

- Designed HVAC systems complying with strict regulatory codes for significant educational institutions.
- Collaborated closely with project stakeholders, advancing collective objectives through cross-disciplinary communication.
- Utilized AutoDesk Revit to create precise design models, minimizing discrepancies throughout the construction phase.
- Analyzed existing HVAC performance, optimizing operations for sustainability.
- Actively participated in client consultations, bolstering project approval success rates.
- Contributed significantly to developing internal guidelines that enhanced workflow efficiencies.

#### Junior Mechanical Engineer

Engineering Dynamics, LLC 📅 May 2016 - May 2018 📍 Chicago, IL

Provided foundational support in HVAC system design, participating in research and compliance verification to underpin high-quality project outcomes.

- Assisted senior engineers in designing HVAC systems across varied building types.
- Conducted comprehensive research on industry codes, assuring adherence to necessary compliance parameters.
- Helped prepare vital technical documentation that clarified stakeholder communications.
- Participated actively in site evaluations, gathering data crucial for ongoing project enhancements.
- Embraced opportunities for continuous learning in new technologies, expanding practical expertise.

## System Performance Analysis

Regulatory Compliance

Quality Assurance

Technical Documentation

Site Observation    Mentoring

Workflow Optimization

## LANGUAGES

English Native

Spanish Intermediate

## MY CAREER



- Senior Mechanical Design Engineer at Innovative Engineering, Inc. (4.4 Years)
- Mechanical Design Engineer at Creative Design Group (3.5 Years)
- Junior Mechanical Engineer at Engineering Dynamics, LLC (2 Years)

- Worked collaboratively with peers on notable team challenges, leveraging shared insights for innovation.

## LEADERSHIP & AWARDS

- Professional Engineer (PE) License (Pending)
- LEED Green Associate (2026)

## EDUCATION

### Bachelor's Degree in Mechanical Engineering

University of Illinois at Chicago 🎓 GPA: 3.8 📅 2016 📍 Chicago, IL

**Coursework:** Thermodynamics, Fluid Mechanics, HVAC Systems, Mechanical Design

## CERTIFICATIONS

- Professional Engineering License 📅 2026
- LEED Green Associate 📅 2026

## TECHNICAL SKILLS

- **Design Tools:** AutoCAD, SketchUp, Inventor
- **Modeling Software:** Revit, SolidWorks, 3D Studio Max
- **Analysis Tools:** Trane Trace, EnergyPlus, ANSYS
- **Communication Platforms:** Slack, Microsoft Teams, Zoom
- **Project Management Tools:** JIRA, Trello, Microsoft Project
- **Industry Standards:** ASHRAE, NEMA, NFPA
- **Sustainability Certifications:** LEED, BREEAM, Green Globes
- **Documentation Software:** Microsoft Office Suite, Adobe Acrobat, Bluebeam
- **Database Management:** SQL Server, Oracle, MS Access
- **Testing Equipment:** Flow Meters, Pressure Gauges, Thermocouples

## PROFESSIONAL AFFILIATIONS

- American Society of Mechanical Engineers (ASME)
- National Society of Professional Engineers (NSPE)

## ADDITIONAL INFORMATION

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

## REFERENCES

AVAILABLE ON REQUEST