

Leo Pitts

Mechanical Engineer

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SUMMARY

Dedicated Mechanical Engineer with over five years of experience, specializing in civil engineering applications. Demonstrates strong capabilities in mechanical design and HVAC systems, ensuring project success through innovative technologies and precise execution. Engages effectively with multidisciplinary teams, delivering impactful solutions that adhere to client specifications and industry standards. Experienced in utilizing advanced CAD software like AutoCAD and REVIT for comprehensive system visualizations and implementation. Known for fostering collaborative environments, effectively managing projects from conception through completion while prioritizing safety and compliance. Eager to contribute technical skills and strategic insights to a growing team focused on high-profile projects.

EXPERIENCE

Mechanical Engineer

GreenField Engineering Solutions 📅 January 2021 - Present 📍 Chicago, IL

Oversees mechanical engineering operations within commercial construction projects. Responsible for driving project efficiency and cost savings by implementing advanced systems. Collaborates closely with diverse teams, focusing on meeting deadlines and delivering quality results.

- Designed and analyzed mechanical systems, improving overall efficiency leading to significant cost reductions.
- Conducted advanced research on HVAC system integrative techniques, enhancing energy utilization across installations.
- Utilized AutoCAD and REVIT for drafting and visualization, adhering strictly to client specifications.
- Managed project timelines collaboratively with cross-functional teams, ensuring multi-project oversight.
- Implemented ASHRAE standards into designs, reinforcing compliance with existing regulations.
- Took the initiative to mentor junior engineers, promoting effective CAD utilization and maintaining design integrity.

Mechanical Designer

BlueSky Infrastructure 📅 June 2018 - December 2020 📍 Chicago, IL

Contributed as part of a dedicated design team to streamline mechanical solutions for infrastructure development. Focused on optimizing designs and material sourcing, playing a key role in achieving timely completions of projects.

- Developed and optimized mechanical designs, which improved delivery timelines significantly for multiple projects.
- Collaborated with vendors for sourcing superior materials, reflecting dedication to quality adherence within budget constraints.
- Executed simulations using MicroStation and powergeopak to validate mechanical design approaches pre-implementation.
- Maintained thorough documentation, ensuring strict adherence to necessary regulatory requirements during design processes.
- Participated actively in site safety audits and compliance checks, highlighting design effectiveness and regulatory adherence.
- Continued professional development led to acquiring certifications in HVAC design tailoring for specific client needs.

Junior Mechanical Engineer

TechDesign Innovations 📅 January 2016 - May 2018 📍 Chicago, IL

Played a supportive role within an engineering team, focusing largely on developing foundational knowledge in HVAC systems and mechanical analysis practices. Involved in essential fieldwork assessments and drafting detailed engineering specifications.

- Supported senior engineers in crafting HVAC systems, showcasing attention to detail and efficient workflow engagement.
- Created detailed CAD drawings aiming to clarify and enhance engineering documentation within active projects.
- Conducted field surveys to inspect existing systems, formulating upgrade recommendations supported by data-driven methodologies.
- Actively participated in project meetings to address design considerations and anticipated challenges with actionable insights.
- Facilitated contractor communication during installation phases, ensuring unobstructed adherence to established design specifications.
- Assisted in preparing project reports integral for client presentations, streamlining outcomes tailored for understanding.

LEADERSHIP & AWARDS

- Awarded Employee of the Year for exemplary performance and project contributions at GreenField Engineering Solutions.
- Recognized for outstanding teamwork in a successful HVAC integration project that received company accolades.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Illinois 🎓 GPA: 3.8 📅 2015 📍 Chicago, IL

Coursework: Thermodynamics, Fluid Mechanics, Structural Analysis, HVAC Design

CERTIFICATIONS

- Professional Engineer (P.E.) 📅 2020
- HVAC Design Certification 📅 2019
- AutoCAD Certified Professional 📅 2018

TECHNICAL SKILLS

- **CAD Software:** AutoCAD, REVIT, MicroStation, Openroads
- **Engineering Standards:** ASHRAE standards, Illinois codes, Safety compliance protocols
- **Simulation Tools:** POWERGEOPAK, ANSYS, COMSOL
- **Project Management Tools:** Microsoft Project, Trello, Asana
- **3D Modeling:** AutoCAD 3D, SolidWorks, SketchUp
- **Research Methodologies:** Data collection, Analysis, Validation
- **Compliance Checks:** Safety audits, Regulatory guidelines, Quality assurance methods
- **Field Inspection Tools:** Measuring instruments, Monitoring devices, Documentation software
- **Vendor Management:** Negotiation tactics, Supply chain coordination, Procurement practices
- **Cost Management Techniques:** Budget tracking, Financial forecasting, Resource allocation strategies

SKILLS

- Mechanical Design
- HVAC Systems
- AutoCAD
- REVIT
- MicroStation
- Powergeopak
- ASHRAE Standards
- Project Management
- Collaboration
- System Analysis
- Energy Efficiency
- Cost Reduction
- Construction Oversight
- Simulation Testing
- Regulatory Compliance
- Documentation

PROFESSIONAL AFFILIATIONS

- Member of American Society of Mechanical Engineers (ASME), contributing to professional development and networking.
- Participated in local engineering community events aimed at fostering collaboration and knowledge sharing.

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST