

Austin Zimmerman

Senior Mechanical Engineer

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SUMMARY

Detail-oriented Mechanical Engineer with over six years of experience in designing mechanical systems for industrial applications, particularly within the power generation and oil & gas sectors. Proven expertise in leading engineering teams through project lifecycles, developing integrated systems designs, and preparing technical specifications. Strong written communication skills facilitate effective interaction with clients and stakeholders. Committed to mentoring junior engineers while driving continuous improvement in engineering practices. Able to see projects from initial conception through completion, enhancing operational efficiency and adherence to specifications.

EXPERIENCE

Senior Mechanical Engineer

Innovative Engineering Solutions 📅 June 2023 – Present 📍 Chicago, IL

Overseeing a team of engineers to design and implement mechanical systems for industrial applications, ensuring compliance with industry standards and project specifications. Responsibilities extend to coordinating design phases and conducting reviews to enhance project quality.

- Lead a team charged with the development of mechanical systems for heavy industrial plants, enhancing process optimization and regulatory adherence.
- Execute calculations for mechanical components and validate specifications, resulting in smooth project flow and successful meet of client expectations.
- Foster a mentoring culture amongst junior engineers by guiding them through technical challenges and promoting professional growth.
- Liaise with project managers and clients to align on objectives and deliverables, fostering positive cooperation and timely project execution.
- Assess existing facilities to identify upgrade opportunities, articulating findings to peers while advocating for best solutions.
- Drive inspection processes, assuring that installations conform with engineering standards.

Mechanical Engineer

Advanced Mechanical Systems 📅 August 2019 – May 2023 📍 Aurora, IL

Worked on designing mechanical systems geared towards enhancing efficiency and sustainability within new and existing plants. Collaborated closely with cross-functional teams to develop detailed engineering studies to satisfy diverse client needs.

- Scoped and designed mechanical systems emphasizing efficiency and environmental stewardship for both new constructions and upgrades.
- Partnered with various teams to create comprehensive engineering studies evaluating potential solutions tailored to specific client requirements.
- Took charge of bill of materials preparation and equipment lists to ensure accuracy in project budgeting.
- Utilized advanced technical writing to craft detailed reports and specifications, paving the way for clear project directives.
- Led thorough engineering design reviews, providing critical insights for innovation and improvement of design processes.
- Engaged proactively with clients to build relationships while delivering effective solutions that aligned with their needs.

Junior Mechanical Engineer

Tech Innovations Inc. 📅 June 2016 – July 2019 📍 Naperville, IL

Supported senior engineers in system design and analysis, contributing to drafting documents and developing project protocols. Gained valuable practical experience in inspections to assure compliance during site operations.

- Contributed essential support in mechanical systems design focusing mainly on industry-specific applications.
- Assisted with creating technical documentation under senior guidance, crucial for project clarity and compliance.
- Conducted vital research for identifying suitable equipment and materials addressing unique engineering requirements.
- Participated actively in team meetings, collaborating to solve mechanical design problems and share progress on initiatives.
- Developed CAD models and drawings, crucial for visualizing projects pre-implementation to anticipate challenges.
- Acquired fieldwork exposure, inspecting completed installations and validating alignment with engineering codes.

LEADERSHIP & AWARDS

- Awarded Employee of the Month for outstanding contributions to a key project.
- Recognized as Best Team Leader within department for effective leadership throughout the year.

EDUCATION

Bachelor of Science in Mechanical Engineering

University of Illinois at Chicago 🎓 GPA: 3.5 📅 2016 📍 Chicago, IL

Coursework: Thermodynamics, Fluid Mechanics, Materials Science, Structural Analysis

CERTIFICATIONS

- Professional Engineer License 📅 2021
- Engineering Management Certification 📅 2023

TECHNICAL SKILLS

- **Design Software:** AutoCAD, SolidWorks, Revit
- **Calculation Tools:** MATLAB, ANSYS, MathCad
- **Collaboration Platforms:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** Asana, Trello, Microsoft Project
- **Reporting Tools:** Excel, Power BI, Tableau
- **Communication Tools:** Email, Phone, In-Person Meetings
- **Manufacturing Methods:** Lean Manufacturing, Six Sigma, Agile
- **Underground Infrastructure:** GIS, Site Survey, Geotechnical Engineering
- **Building Codes:** ASTM, ASHRAE, NEC
- **Safety Standards:** OSHA, ISO 9001, CE Marking

SKILLS

- Mechanical System Design
- Project Management
- Technical Writing
- Team Leadership
- Problem Solving
- CAD Software
- Engineering Analysis
- Client Communication
- Systems Integration
- Process Optimization
- Quality Assurance
- Budget Estimation
- Research Skills
- Cross-Functional Collaboration
- Mentorship
- Design Review

PROFESSIONAL AFFILIATIONS

- ASME Member engaged in local chapter activities to promote engineering education.
- Participated in community outreach programs focusing on STEM education.

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST