

JASPER WOODS

MECHANICAL ENGINEERING TEAM LEAD

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STRENGTHS

- 🔧 **Technical Leadership**
Pioneered effective design approaches that unify engineering objectives, establishing a shared vision across teams.
- 📄 **Documentation Standards**
Instituted rigorous documentation protocols that greatly minimized confusion and miscommunication in projects.
- 👥 **Team Collaboration**
Cultivated an environment of support within cross-functional teams, which increased collective problem-solving capacities.
- ⚙️ **Process Improvement**
Implemented strategies that streamlined workflows which enhanced productivity and output quality across engineering functions.
- 🎓 **Mentorship**
Actively guided junior engineers, becoming a trusted resource that helped shape future leaders within the industry.

SKILLS

Mechanical Design

CAD Software (SolidWorks)

Project Management

Team Leadership

Automation Systems

PDM Systems Robotic Systems

Design Integration

Prototype Development

Quality Assurance

SUMMARY

Mechanical Engineer with over 7 years of comprehensive experience in machine design and automation systems. Proven track record in leading engineering teams to deliver innovative solutions while ensuring adherence to best practices and project deadlines. Strong proficiency in CAD software, particularly SolidWorks and Inventor, coupled with excellent leadership and communication skills. Committed to fostering a collaborative culture that emphasizes quality and continuous improvement. Eager to contribute technical expertise and mentorship within a progressive environment where teamwork drives success.

EXPERIENCE

Mechanical Engineering Team Lead

Dynamic Engineering Solutions 📅 January 2021 - Present 📍 Peoria, IL

- Oversaw a talented team responsible for advanced factory automation designs, delivering impactful solutions tailored to client needs. Guided the development of innovative projects by facilitating efficient resource allocation and ensuring alignment with organizational goals.
- Led a team of engineers in designing advanced factory automation systems, resulting in notable improvements in project efficiency.
 - Defined mechanical design philosophies to guide project vision, reducing average delivery timelines significantly.
 - Collaborated across departments to ensure cohesive integration of electrical and controls projects.
 - Established stringent engineering standards and document protocols, achieving a marked decrease in design errors.
 - Mentored junior team members, enhancing their professional capabilities and contributing positively to company culture.
 - Executed project adjustments as needed to monitor progress; effectively resolved conflicts and maintained schedule integrity.

Senior Mechanical Engineer

Precision Automation Inc. 📅 July 2017 - December 2020 📍 Bloomington, IL

Elevated operational efficiency by developing robust mechanical systems for automation applications while maintaining strong collaboration with project management to ensure timely execution.

- Designed mechanical systems that improved downtime efficiencies, showcasing successful knowledge application.
- Conducted systematic design evaluations, yielding enhanced engineering processes that were implemented company-wide.
- Participated in projects integrating new technologies, ensuring designs met contemporary standards.
- Facilitated training on CAD tools, increasing team efficiency and software adeptness among peers.

Mechanical Engineer

Innovative Manufacturing Solutions 📅 June 2015 - June 2017 📍 Champaign, IL

Contributed to advancements in robotic system design while collaborating within cross-functional teams to achieve effective prototyping outcomes.

- Developed components for robotic systems, boosting product satisfaction levels through customer-focused enhancements.

Structural Analysis

Factory Automation

Process Optimization

Engineering Standards

Technical Documentation

Continuous Improvement

- Effectively used PDM systems for sharable document accuracy during project phases, improving overall efficiency.
- Supported key assessments by establishing clear engineering standards and practices during QA reviews.
- Assisted new staff onboarding efforts, enriching workplace cohesion while promoting an open knowledge sharing environment.

LEADERSHIP & AWARDS

- CSWP Certification awarded for proving mastery in SolidWorks essential to engineering operations.
- Lean Six Sigma Green Belt certified, recognizing ability to improve processes and reduce waste.

EDUCATION

Bachelor's Degree in Mechanical Engineering

University of Illinois 🎓 GPA: 3.8 📅 2015 📍 Urbana-Champaign, IL

Coursework: Thermodynamics, Fluid Mechanics, Dynamics, Control Systems

CERTIFICATIONS

- Certified SolidWorks Professional 📅 2022
- Lean Six Sigma Green Belt 📅 2021

TECHNICAL SKILLS

- **CAD Software:** SolidWorks, Inventor, AutoCAD
- **Project Management Tools:** Microsoft Project, Trello, JIRA
- **Automation Technologies:** PLC Systems, Robotics, Sensing Technologies
- **PDM Systems:** Siemens Teamcenter, SolidWorks PDM, Autodesk Vault
- **Manufacturing Processes:** Additive Manufacturing, CNC Machining, Injection Molding
- **Quality Management:** Six Sigma, Kaizen, ISO Standards
- **Communication Tools:** Slack, Microsoft Teams, Zoom
- **Version Control Systems:** Git, Subversion, Mercurial
- **Simulation Tools:** ANSYS, MATLAB, COMSOL
- **Analytical Software:** MATLAB, Mathematica, Minitab

PROFESSIONAL AFFILIATIONS

- Member of ASME (American Society of Mechanical Engineers) since 2015, engaging in ongoing technical development.
- Participant in local engineering meetups, fostering networking and knowledge exchange with industry professionals.

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST

LANGUAGES

English Native

Spanish Proficient

MY CAREER



● Mechanical Engineering
Team Lead at Dynamic
Engineering Solutions (5.4
Years)

● Senior Mechanical Engineer
at Precision Automation Inc. (3.4
Years)

● Mechanical Engineer at
Innovative Manufacturing
Solutions (2 Years)