



Liliana Bishop

Mechanical Designer

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SUMMARY

Dedicated Mechanical Designer with over eight years in manufacturing and heavy equipment sectors. Proven skill in developing intricate designs through Autodesk Inventor. Adept at creating precise CAD models and drawings, and mastering design documentation management has been instrumental in ensuring alignment with engineering specifications. Collaborative approach fosters effective teamwork across engineering, production, and purchasing sectors. Always seeking innovative solutions that meet high-quality standards and customer specifications. Experience spans from managing extensive design libraries to troubleshooting design-related challenges during production. Strong leadership contributes positively to project success and enhances efficiency.

EXPERIENCE

Senior Mechanical Designer

TechWorks Inc. 📅 March 2020 - Present 📍 Chicago, IL

Lead efforts as a Senior Mechanical Designer at TechWorks Inc., specializing in creating advanced mechanical systems for manufacturing. This position requires deep collaboration with cross-functional teams, focusing on quality and efficiency.

- Spearheaded complex mechanical system designs, contributing to enhanced production efficiency and reduced time cycles.
- Developed a comprehensive design library streamlining processes, increasing productivity for subsequent projects.
- Directed cross-team design reviews, facilitating critical feedback sessions that led to improved product quality.
- Authored detailed BOMs and assembly manuals, ensuring clarity for manufacturing teams and reducing errors.
- Implemented design principles that decreased rework cycles, showing proactive strategic improvements.
- Provided ongoing troubleshooting support during production phases, adeptly resolving technical issues.

Mechanical Designer

MecTech Solutions 📅 June 2016 - February 2020 📍 Naperville, IL

Experienced Mechanical Designer at MecTech Solutions, engaged in the end-to-end design process of mechanical assemblies for conveyor systems. Role required proactive problem-solving and close feedback from production staff.

- Executed designs for new mechanical assemblies, optimizing existing processes for higher throughput in manufacturing line.
- Created accurate 3D models and fabrication drawings using Autodesk Inventor, consistently adhering to deadlines.
- Partnered with production teams, identifying design challenges and developing effective strategies for resolution.
- Presented design updates regularly, reinforcing team comprehension of objectives and methodologies.
- Monitored compliance status of design documentation while making requisite updates in real-time.
- Mentored junior designers on best practices for CAD modeling and documentation integrity.

Mechanical Designer

Enginuity Corp. 📅 May 2014 - May 2016 📍 Schaumburg, IL

Contributed valuable experience as a Mechanical Designer at Enginuity Corp., developing designs for heavy machinery under tight constraints. Attention to detail ensures adherence to both design and compliance standards.

STRENGTHS

- 💡 **Creative Problem Solving**
Skilled at implementing innovative solutions for complex design issues, earning recognition among peers.
- 👥 **Collaboration**
Foster strong partnerships across departments, becoming a key bridge between design, production, and quality assurance.
- 📄 **Document Management**
Expert in maintaining design documents that enhance workflow efficiencies, ensuring compliance and accessibility.
- 🎓 **Mentoring**
Enjoy mentoring younger engineers, aiding in their growth while fostering an engaging work environment.
- 👁️ **Attention to Detail**
Always strive for perfection in detailing designs, garnering trust from stakeholders in design accuracy.

SKILLS

Autodesk Inventor

Mechanical Design CAD Modeling

DFM Principles

Design Documentation Management

Project Management

Problem Solving

Assembly Layouts

Welded Assemblies

Fabrication Processes

Heavy Equipment Design

Sheet Metal Design

Manufacturing Drawings

Data Management

Technical Communication

Cross-functional Leadership

- Formulated robust designs for heavy machinery, successfully meeting aggressive timelines without sacrificing budget.
- Qualified design outputs via stringent adherence to drafting standards, incorporating principles of DFM systematically.
- Generated necessary assembly layouts along with written documentation crucial for operations personnel.
- Participated actively in meetings, aligning project goals with available manufacturing capabilities.
- Ensured orderly management of design revisions aiding seamless transitions from concept to implementation.
- Applied Excel and iLogic effectively, automating tedious data management tasks significantly.

LEADERSHIP & AWARDS

- Outstanding Mechanical Design Award, TechWorks Inc., 2021
- Employee of the Month, MecTech Solutions, December 2018



EDUCATION

Bachelor of Science in Mechanical Engineering

University of Illinois at Chicago  GPA: 3.8  2014  Chicago, IL

Coursework: Machine Design, CAD Applications, Materials Science, Thermodynamics

CERTIFICATIONS

- Certified SolidWorks Professional (CSWP)  2020
- Autodesk Certified Professional: Inventor  2019

TECHNICAL SKILLS

- **CAD Tools:** Autodesk Inventor, SolidWorks, AutoCAD
- **Design Software:** ANSYS, MATLAB, Pro/ENGINEER
- **Documentation Standards:** ASME Y14.5, ISO 9001, DFMA
- **Automation Tools:** iLogic, Microsoft Excel, Visual Basic
- **Manufacturing Processes:** Welding, Casting, Machining
- **Quality Assurance:** Six Sigma, Lean Manufacturing, Quality Control
- **Project Management Tools:** Trello, JIRA, Microsoft Project
- **Mechanical Systems:** Conveyor Systems, Heavy Machinery, Automation Equipment
- **Collaboration Tools:** Slack, Microsoft Teams, Zoom
- **Design Review Techniques:** Peer Reviews, Continuous Improvement Meetings, Technical Presentations

PROFESSIONAL AFFILIATIONS

- Member of ASME (American Society of Mechanical Engineers)
- Regular attendee at local engineering innovation workshops

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



- Senior Mechanical Designer at TechWorks Inc. (6.2 Years)
- Mechanical Designer at MecTech Solutions (3.7 Years)
- Mechanical Designer at Engenuity Corp. (2 Years)