

Adrian Bishop

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SUMMARY

Dynamic Mechanical Engineer with over 5 years of experience in fluid power design and hydraulic systems. Proven expertise in developing, validating, and troubleshooting complex hydraulic equipment tailored to manufacturing needs. Demonstrated proficiency in SolidWorks for designing parts and assembly models. Ability to innovate processes that enhance the performance and reliability of fluid power circuitry. Committed to fostering collaboration with various teams while adhering to critical safety and operational standards. Eager to contribute skills and creativity to optimize hydraulic systems further.

EXPERIENCE

Fluid Power Engineer

March 2022 - Present

Innovative Mechanics Inc.

Chicago, IL

Leads engineering efforts for hydraulic systems primarily in manufacturing settings. Drives innovation through intricate designs and validates practical applications. Ensures adherence to safety regulations during implementation phases across projects.

- Designed and validated hydraulic systems for diverse applications improving operational efficiency significantly.
- Developed fluid power circuit designs ensuring precise logic in system control on all projects.
- Creatively utilized SolidWorks for modeling intricate assemblies enhancing team collaboration.
- Conducted comprehensive troubleshooting sessions for mechanical systems reducing downtime by 15%.
- Worked closely with production teams verifying alignment with engineering best practices ensuring compliance and safety standards.
- Championed the development of new operational procedures resulting in a 20% increase in overall equipment reliability.

Mechanical Engineer

June 2019 - February 2022

Dynamic Engineering Solutions

Peoria, IL

Oversaw detailed specifications for hydraulic components catering to unique client requirements. Engaged in research to explore innovative technologies enhancing performance metrics for hydraulic machinery.

- Defined specifications for hydraulic and mechanical components crafting refined designs per client demand.
- Integrated new technological advancements which boosted hydraulic equipment performance.
- Engineered detailed hydraulic schematics using SolidWorks streamlining the entire design process.
- Guided less experienced engineers on principles of fluid power and techniques in SolidWorks modeling.
- Actively participated in project alignment meetings focusing on seamless coordination of timelines and objectives.
- Assisted in machine control programming optimizing functionality and operational capacity within systems.

Junior Mechanical Engineer

January 2016 - May 2019

Tech Innovations LLC

Rockford, IL

Contributed effectively to the design and development stages of hydraulic systems concentrating on efficiency metrics and safety assurances. Collaborated with senior engineers throughout various improvement initiatives.

- Supported design and developmental efforts in hydraulic systems focusing on enhancing workflow efficiencies.
- Produced SolidWorks models for diverse mechanical assembly components applying precision and accuracy.
- Performed thorough testing and validation of hydraulic systems ensuring full compliance with rigorous safety benchmarks.
- Collaborated effectively with experienced engineers contributing insight on ongoing design improvements.
- Diligently documented specifications and modifications aiding reproducibility for future tasks.
- Equipped with hands-on troubleshooting experiences in fluid power systems significantly enhancing skill set.

LEADERSHIP & AWARDS

- Certified Fluid Power Specialist - 2023
- Outstanding Young Engineer Award - 2021

EDUCATION

Bachelor's Degree in Mechanical Engineering

2015

University of Illinois GPA: 3.8

Champaign, IL

Coursework: Fluid Dynamics, System Design, Thermodynamics, Materials Science

CERTIFICATIONS

- Certified Fluid Power Specialist  2023

- Project Management Certification 📅 2021

TECHNICAL SKILLS

- **Design Software:** SolidWorks, AutoCAD, CATIA
- **Engineering Principles:** Thermodynamics, Fluid Dynamics, Kinematics
- **Testing Methods:** Component Testing, System Validation, Failure Analysis
- **Manufacturing Processes:** Additive Manufacturing, CNC Machining, Assembly Techniques
- **Programming Languages:** Python, MATLAB, Ladder Logic
- **Documentation Tools:** MS Office, Engineering Drawings, CAD Models
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Simulation Tools:** ANSYS, COMSOL, Simulink
- **Quality Assurance Standards:** ISO 9001, Six Sigma, Lean Manufacturing
- **Maintenance Strategies:** Preventive Maintenance, Root Cause Analysis, Reliability Centered Maintenance

SKILLS

- Fluid Power Design
- SolidWorks
- Hydraulic Systems
- Mechanical Systems
- Troubleshooting
- Machine Control Programming
- Process Improvement
- Equipment Validation
- Component Specifications
- System Analysis
- Safety Compliance
- Innovation Management
- Design Optimization
- Prototype Development
- Fluid Circuit Planning

PROFESSIONAL AFFILIATIONS

- Society of Mechanical Engineers - Member since 2018
- Fluid Power Society - Active Contributor since 2020

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST