

James Benitez

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SUMMARY

Detail-oriented Automation Mechanical Engineer with four years of experience designing and implementing automated systems across various manufacturing environments. Proficient in 2D and 3D CAD design, including AutoCAD and SolidWorks. Demonstrated ability to collaborate effectively with cross-functional teams, ensuring project success and high customer satisfaction. Skilled in analytical and problem-solving methods, emphasizing safety, efficiency, and budget management. Passionate about staying updated with the latest technologies in automation and supporting business growth through innovative design solutions.

EXPERIENCE

Automation Mechanical Engineer

June 2022 - Present

Innovative Automation Solutions

Milwaukee, WI

Oversee mechanical design projects for automation systems, aligning closely with client specifications and industry standards. Responsible for delivering intricate design solutions with a focus on functionality and future scalability.

- Spearheaded the design of multiple automation systems, ensuring compliance with safety standards while maximizing efficiency.
- Actively collaborated with sales teams to determine viability and feasibility of proposed mechanical automation applications.
- Engineered integrating robotic components into automation systems, enhancing operational excellence.
- Developed comprehensive presentation packages detailing mechanical designs and system functionalities.
- Participated in project management, tracking all documentation needed for timely, within-budget project completions.
- Successfully resolved engineering challenges by employing advanced problem-solving techniques.

Mechanical Design Engineer

March 2020 - May 2022

Precision Manufacturing, Inc.

Green Bay, WI

Designed custom automation systems focused on improving production efficiency for leading blue-chip clients. Harnessed collaboration to streamline processes throughout the project lifecycle.

- Created tailored mechanical designs for client-specific automation solutions, greatly reducing production downtime.
- Liaised with vendors for precise selection of mechanical and pneumatic components, ensuring adherence to engineering designs.
- Produced system layouts and installation drawings essential for painless integration into existing workflows.
- Conducted in-depth reach analysis and sizing projects for robotic arm specifications meeting application criteria.
- Facilitated project completion from start to end through strong teamwork and effective communication.
- Investigated industry best practices in automation technologies, applying findings to enhance service quality.

Mechanical Engineering Intern

June 2019 - August 2019

Tech Innovators Group

Madison, WI

Gained practical experience in mechanical engineering through involvement in design and testing of numerous automation systems. Collaborated directly with engineers to innovate and implement solutions.

- Assisted with design and testing phases of automation systems, acquiring valuable hands-on skills in mechanical principles.
- Partnered with engineering groups to develop CAD models and prototype new automations.
- Researched cutting-edge technologies in automation to inform ongoing project developments.
- Executed rigorous documentation practices assuring technical accuracy throughout product development.
- Contributed during team brainstorming sessions, suggesting impactful process enhancements.
- Shadowed senior engineers, absorbing valuable insight into best practices in mechanical design and project delivery.

LEADERSHIP & AWARDS

- Dean's List, University of Wisconsin-Madison, 2023-2026
- Outstanding Team Contribution Award, Innovative Automation Solutions, 2024

EDUCATION

Bachelor's Degree in Mechanical Engineering

2026

University of Wisconsin-Madison GPA: 3.5

Madison, WI

Coursework: Mechanical Design, Robotics, Automation Systems, Engineering Principles

CERTIFICATIONS

- Certified SolidWorks Associate (CSWA) 📅 2025
- Professional Engineer License (PE) 📅 Expected 2026

TECHNICAL SKILLS

- **CAD Software:** AutoCAD, SolidWorks, Inventor
- **Automation Technology:** PLC Programming, HMI, SCADA
- **Design Methodologies:** 3D Modeling, Rapid Prototyping, Lean Manufacturing
- **Communication Tools:** Microsoft Teams, Slack, Zoom
- **Project Management Tools:** Trello, Asana, JIRA
- **Material Selection:** Aluminum, Steel, Composite Materials
- **Testing Standards:** ISO, ASTM, ANSI
- **Robotics Components:** End Effectors, Sensors, Actuators
- **Component Sourcing:** Supplier Evaluation, Cost Analysis, Quality Assurance
- **Customer Interface:** Client Meetings, Feedback Analysis, Relationship Building

SKILLS

- 2D and 3D CAD Design
- Robotics Integration
- Problem Solving
- Automation Systems
- Project Management
- Microsoft Office Suite

PROFESSIONAL AFFILIATIONS

- Member, American Society of Mechanical Engineers (ASME)
- Volunteer, Engineering Outreach Program

LANGUAGES

- English (Native)
- Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST