

Hana Valencia

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SUMMARY

Recent engineering graduate focused on Biomedical Engineering with practical experience in automation systems and exceptional customer service. Hands-on involvement in research projects, enhancing technical skills in electronics, PLCs, and programming languages such as Python. Excited to leverage strong collaboration abilities to provide top-notch solutions for clients at Waters Technologies. Possesses effective communication skills, ensuring successful interactions with both customers and cross-disciplinary teams. Committed to continuous improvement and dedicated to delivering innovative practices that meet market demands. An eager contributor ready to exceed expectations in all aspects of the role.

EDUCATION

Bachelor's Degree in Biomedical Engineering
University of Minnesota GPA: 3.8
Coursework: Mechanical Systems, Signal Processing, Data Analysis, Project Management

2026
Minneapolis, MN

TECHNICAL SKILLS

- **Programming Languages:** Python, LabVIEW, C++, MATLAB
- **Diagnostic Equipment:** Kiestra, LC/MS, BioRad
- **Maintenance Practices:** Preventive Maintenance, Upgrades, Repairs
- **Tools and Applications:** AutoCAD, SolidWorks, Data Analysis Software
- **Collaboration Tools:** Microsoft Teams, Slack, Trello
- **Documentation Standards:** IEEE, ISO 9001, GxP
- **Testing Procedures:** Validation Testing, Safety Standards, Quality Assurance
- **Networking Knowledge:** Systems Networking, Wireless Protocols, Server Configuration
- **Compliance Knowledge:** Regulatory Compliance, Risk Analysis, Safety Protocols
- **Service Delivery:** Customer Interaction, Follow-Up Plans, Issue Resolution

SKILLS

- Automation Systems
- Electronics and Mechatronics
- Technical Documentation
- Customer Service
- PLC Programming
- Project Management

EXPERIENCE

Automation Systems Developer
University Project

January 2026 - Present
St. Paul, MN

Managed an academic project creating an automated laboratory instrument system, focusing on optimizing efficiency and user interaction. Emphasized integration of electronic components and software to enhance functionality.

- Developed a user-friendly interface streamlining tasks for lab technicians and minimizing training time.
- Conducted rigorous testing to ensure compliance with safety and performance standards specific to automation equipment.
- Collaborated effectively with team members, driving successful project presentations praised by faculty and industry professionals.
- Wrote a comprehensive report documenting methodologies and progress, contributing valuable insights for shared academic knowledge.
- Utilized programming tools like Python and LabVIEW to create advanced functionalities within the instrumentation system.
- Participated in discussions around project objectives, integrating feedback from peers and advisors to refine project scope.

Biomedical Research Assistant
Academic Research

September 2025 - December 2025
St. Paul, MN

Contributed to research examining electro-mechanical devices in medical diagnostics, working within a coordinated academic fellowship environment focusing on accurate data gathering and analysis.

- Assisted with data collection using statistical software to ensure trend validation in experimental results.
- Engaged in collaborative efforts to prepare detailed research presentations for academic conferences showcasing innovations.
- Maintained regular communications with faculty mentors, enhancing research foundations through constructive critiques and iterative feedback loops.
- Generated technical documents detailing experiment protocols, increasing reproducibility for subsequent studies.
- Applied analytical thinking to troubleshoot potential technical failures during experimentation phases.

- Facilitated growth of research concepts through collective brainstorming sessions with department colleagues.

Engineering Intern
Internship

June 2025 - August 2025
Minneapolis, MN

Aided the engineering team in maintaining laboratory instrumentation, gaining firsthand experience with operational adherence and maintenance protocols critical to medical diagnostics.

- Documented procedures for servicing and upgrading complex laboratory instruments, optimizing internal workflow processes.
- Obtained valuable exposure to PLCs, pneumatics, and electronics layouts while performing hands-on repairs.
- Actively participated in technical training sessions aimed at sharpening troubleshooting and customer interaction skills.
- Conducted inspections as part of a preventive maintenance routine, minimizing downtime and ensuring functional fidelity.
- Collaborated with seasoned engineers, developing strategies for enhancing laboratory operation efficiency.
- Helped draft standardized service documentation, improving clarity and accessibility for future reference with client interactions.

LEADERSHIP & AWARDS

- Dean's List, University of Minnesota (2024 - 2026)
- Winner, University Robotics Challenge (2025)

CERTIFICATIONS

- Certified LabVIEW Associate Developer 📅 2026
- Basic Life Support (BLS) Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society (2024 - Present)
- Volunteer, Engineering Outreach Program (2025)

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST