

Magdalena Miranda

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SUMMARY

Enthusiastic Biomedical Technician with over two years of meaningful experience in electronics and biomedical environments. Strong expertise in maintaining, repairing medical equipment, enhancing safety compliance and operational effectiveness. Skillful at troubleshooting devices to ensure reliability crucial for patient care. Passionate about professional growth, always seeking opportunities for continual learning while committed to advocating technology upgrades for improved patient experiences. Eager to bring innovative solutions and a team-oriented attitude to expedite success within HealthTech Innovations.

EXPERIENCE

Biomedical Technician June 2025 - Present
TechCare Solutions Champaign, IL

Responsible for maintaining a diverse range of biomedical equipment, ensuring regulatory compliance and safety standards are met effectively. Collaborates directly with healthcare professionals to address technical issues swiftly, contributing significantly to uninterrupted patient care.

- Executed routine maintenance procedures on various biomedical devices, securing high adherence to industry regulations.
- Streamlined equipment diagnostics processes, achieving notable improvements in first-time repair successes.
- Trained new hires on updated protocols, fostering a culture focused on safety and efficiency across the team.
- Maintained comprehensive logs for repairs and services, advancing operational transparency and accountability.
- Complied with continuous education initiatives, staying current on emerging technologies and practices.
- Collaborated with multidisciplinary teams, addressing concerns to enhance patient outcomes.

Biomedical Engineering Intern January 2025 - May 2025
Innovative Health Systems Normal, IL

A dynamic role that centered on supporting the engineering team through practical testing of medical devices. Contributed valuable insights during design evaluations aiding in innovative healthcare advances.

- Assisted engineers during the evaluation phase of new device prototypes, solidifying frontline interaction with future technologies.
- Contributed efforts during installation phases, calibrating devices for optimal service delivery.
- Performed rigorous compliance checks following assigned safety audits to maintain high standards.
- Collected and translated test data into actionable reports used for enhancements on devices.
- Participated actively in brainstorming sessions, influencing project direction with evidence-based input.
- Authored aid documentation building staff capability in effective usage of cutting-edge medical technologies.

Research Assistant September 2023 - December 2024
University Research Lab Normal, IL

Conducted influential research focusing on electronic component reliability within medical applications. Engaged with faculty-driven projects improving understanding of performance metrics vital for future developments.

- Led experimental teams, performing essential research analyzing electronic components' reliability in biomedical settings.
- Utilized statistical analysis tools yielding data critical for presentations at conferences showcasing advancements.
- Fostered positive relationships with researchers, creating productive environments conducive to knowledge-sharing.
- Contributed to grant writing submissions, helping secure funding for ongoing innovative studies.
- Crafted and presented detailed findings aimed at both academic audiences and wider stakeholders.
- Developed hands-on prototypes which informed subsequent design revisions leading to product improvement.

LEADERSHIP & AWARDS

- Dean's List, Illinois State University, 2024
- Winner, Biomedical Engineering Competition, Illinois State University, 2023

EDUCATION

Bachelor's Degree in Biomedical Engineering 2026
Illinois State University GPA: 3.8 Normal, IL

Coursework: Biomedical devices, Medical Instrumentation, Electronics, Data Analysis

CERTIFICATIONS

- Certification by the Association for the Advancement of Medical Instrumentation (AAMI) 📅 2026

- Medical Device Safety Certification 📅 2026

TECHNICAL SKILLS

- **Diagnostic Tools:** Multimeter, Oscilloscope, Safety Analyzer
- **Software Applications:** MATLAB, LabVIEW, SPSS
- **Data Analysis Tools:** SQL, Excel, Python
- **Medical Imaging Technologies:** MRI, CT Scanner, Ultrasound
- **Maintenance Protocols:** Preventive Maintenance, Manual Handling, Troubleshooting Techniques
- **Regulatory Standards:** ISO 13485, AAMI Standards, FDA Guidelines
- **Equipment Calibration Tools:** Calibration Devices, Test Setups, Measuring Instruments
- **Communication Tools:** Microsoft Office, Zoom, Slack
- **Continuing Education Platforms:** LinkedIn Learning, Coursera, Medical Device Academy
- **Testing Methodologies:** Functional Testing, Performance Testing, Usability Testing

SKILLS

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|-------------------------------|--------------------------|------------------------------------|------------------------|
| • Biomedical Equipment Repair | • Data Analysis | • Mechanical Systems Understanding | • Training & Support |
| • Electronics Troubleshooting | • Team Collaboration | • Electrical Circuitry Knowledge | • Client Communication |
| • Patient Care Technology | • Safety Regulations | • Technical Documentation | • Project Coordination |
| • Compliance Standards | • Troubleshooting Skills | • Vendor Management | |

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society, Illinois State University
- Volunteer, HealthTech Community Outreach Program

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST