Arianna Myers

Biomedical Engineer

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STRENGTHS

Creative Problem Solving
Consistently approached challenges with innovative solutions, making complex issues manageable during project design.

Effective Communication
Bridged gaps between engineers and clinicians, ensuring alignment around design goals through active dialogues.

Adaptability
Quickly adjusted methodologies in response to feedback, enhancing project outcomes based on real-use scenarios.

Attention to Detail
Focused on precision from prototyping through testing, minimizing errors and enhancing final product quality.

Team Collaboration
Fostered an environment of support among peers, becoming a go-to resource for advice on various design projects.

SKILLS

CAD Design
Prototyping
Bench Testing
Regulatory Compliance
Clinical Collaboration
3D Printing
Medical Device Development
User-Centered Design
Documentation
Anatomy Knowledge
Electronics Integration
Testing Protocols
Biomedical Engineering
Iterative Design
Vendor Management

SUMMARY

Biomedical Engineer committed to innovating medical solutions through hands-on design and prototyping. Skilled in engaging clinicians for insight, translating needs into prototypes that ensure safety and functionality. Extensive experience with CAD software, bench testing, and compliance documentation. Enthusiastic about advancing healthcare technology by collaborating with cross-functional teams to create impactful products that meet real-world challenges. Proven ability to adapt concepts into practical applications while maintaining rigorous standards for regulatory requirements and operational efficacy.

EXPERIENCE

Biomedical Engineering Intern

University Research Lab June 2025 - Present New York, NY

Supported innovative projects at a leading university lab focusing on biomedical engineering initiatives. Collaborated with engineers and health professionals on prototype design, testing, and refinement. Engaged in Biodesign process emphasizing clinical necessity and technical feasibility.

- Designed and developed prototypes using advanced CAD tools, integrating feedback from clinical stakeholders.
- Conducted detailed bench tests assessing device functionality, ensuring comprehensive documentation for grant applications.
- Interviewed surgeons to uncover specific clinical challenges transforming input into functional engineering specifications.
- Collaborated effectively across teams, validating prototypes against industry safety and applicability standards.
- Maintained laboratory environments adhering to safety protocols, creating efficient workflows for ongoing projects.
- Contributed actively to the Biodesign process, facilitating iterative development cycles aligned with clinical insights.

Junior Biomedical Engineer

Innovative Health Solutions June 2023 - May 2025 New York, NY

Executed pivotal design functions as part of a vibrant team focused on medical device innovations. Worked to enhance user-centered designs and commercial viability through methodical testing and adaptation processes.

- Worked collaboratively to craft user-centered medical devices, prioritizing clinician insights throughout development.
- Performed analyses on current medical device technologies, highlighting improvement opportunities addressing user issues.
- Assisted in crafting robust testing protocols ensuring thorough evaluations aligning with regulatory mandates.
- Managed vendor communications sourcing quality materials essential for manufacturing medical devices.
- Engaged in design review sessions fostering group brainstorming for idea generation and product enhancement.
- Documented critical design iterations tracking progress and integrating stakeholder feedback into project reports.

LEADERSHIP & AWARDS

- Dean's List, New York University - 2024, 2025

EDUCATION

Bachelor's Degree in Biomedical Engineering

New York University GPA: 3.8 2026 New York, NY

LANGUAGES

English — Native

Spanish — Intermediate

MY CAREER

- Biomedical Engineering Intern at University Research Lab (1.2 Years)
- Junior Biomedical Engineer at Innovative Health Solutions (1.9 Years)

Coursework: *Medical Device Development, Design Thinking, Biomechanics, Regulatory Affairs*

CERTIFICATIONS

- Certified Biomedical Equipment Technician (CBET) 2026

TECHNICAL SKILLS

- **Design Tools:** AutoCAD, SolidWorks, Rhino
- **Testing Methods:** Life Cycle Testing, Validity Testing, Functional Testing
- **Prototyping Techniques:** 3D Printing, CNC Machining, Laser Cutting
- **Medical Knowledge:** Anatomy, Physiology, Medical Devices
- **Safety Standards:** ISO 13485, FDA Regulations, ANSI Standards
- **Project Management:** Agile, Scrum, Waterfall
- **Clinical Engagement:** Needs Assessment, User Interviews, Report Generating
- **Material Knowledge:** Polycarbonate, Composites, Metal Alloys
- **Documentation:** Technical Writing, Research Reports, Compliance Documentation
- **Collaboration Tools:** Slack, Microsoft Teams, Trello

PROFESSIONAL AFFILIATIONS

- Vice President, Biomedical Engineering Society, NYU - 2025
- Member, National Society of Black Engineers

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST