



# Emily Hamilton

## Intern Engineer Graduate - Biomedical

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### STRENGTHS

- 💡 **Critical Thinking**  
Consistently approaches problems strategically and innovatively while maintaining focus on objectives.
- 📊 **Analytical Skills**  
Employs effective data strategies to uncover actionable insights that drive improvements.
- 👥 **Collaboration**  
Builds strong partnerships within teams, enhancing project delivery through diverse perspectives.
- 🗣️ **Effective Communication**  
Presents complex information clearly, adapting language for varied audiences to ensure understanding.
- 🔄 **Adaptability**  
Responds positively to changing conditions and discovers new ways to succeed amidst challenges.

### SKILLS

Biomedical Engineering

Data Analysis   Problem Solving

Communication   CAD Software

Statistical Analysis

Machine Learning

Research Methodologies

### LANGUAGES

English   Native

Spanish   Intermediate

### SUMMARY

Focused biomedical engineering graduate proficient in laboratory research and analysis. Passionate about advancing healthcare through technological innovation. Gained hands-on experience in experimental design, statistical data analysis, and collaborative problem-solving during academic projects. Eager to contribute to innovative biomedical solutions while learning from industry leaders and fostering strong professional relationships.

### EDUCATION

#### Bachelor of Science in Biomedical Engineering

University of Colorado 🎓 GPA: 3.7 📅 2026 📍 Boulder, CO

**Coursework:** Data Analysis, Medical Device Design, Material Science, Machine Learning

### TECHNICAL SKILLS

- **Statistical Tools:** SPSS, R, Python
- **Design Software:** AutoCAD, SolidWorks, Pro/ENGINEER
- **Research Techniques:** Qualitative Analysis, Quantitative Analysis, Experimental Design
- **Data Visualization:** Matplotlib, Seaborn, Tableau
- **Prototyping Tools:** CNC Machines, 3D Printing, Laser Cutting
- **Machine Learning Frameworks:** TensorFlow, Keras, Scikit-Learn
- **Writing & Presentation Tools:** Microsoft PowerPoint, LaTeX, Google Slides
- **Database Management:** SQL Server, MySQL, MongoDB
- **Collaboration Platforms:** Slack, Zoom, Microsoft Teams
- **Medical Device Regulations:** FDA Guidelines, ISO Standards, CE Marking

### EXPERIENCE

#### Research Assistant

University Research Lab 📅 January 2026 - Present 📍 Boulder, CO

Support advanced biomedical research through experimental design and data analysis. Collaborate with researchers to enhance findings and maintain compliance with scientific protocols.

- Executed experiments focusing on material properties and their applications in healthcare.
- Analyzed data applying advanced statistical methods for publication-ready results.
- Crafted detailed presentations communicating complex findings effectively to various stakeholders.
- Troubleshoot experimental issues on-the-fly, showcasing critical problem-solving skills.
- Participated in strategic discussions during weekly team meetings to steer project directions.
- Maintained meticulous lab records aligning with established safety guidelines and quality standards.

#### Capstone Project Developer

University of Colorado 📅 August 2025 - December 2025 📍 Boulder, CO

Lead the development of an innovative medical device prototype aimed at improving blood analysis. Engage peers through hands-on collaboration and iterative testing.

MY CAREER



● Research Assistant at University Research Lab (7 Months)

● Capstone Project Developer at University of Colorado (4 Months)

● Machine Learning Intern at Student Innovation Lab (2 Months)

- Directed a team project focused on designing a prototype for efficiency in blood sample analysis.
- Reviewed literature extensively to guide the design process and identify technology improvements.
- Utilized CAD software for clear visualization of design concepts among project stakeholders.
- Refined the prototype through rigorous iterative testing, aligning with performance benchmarks.
- Delivered final presentation to faculty highlighting depth of research and findings.
- Gained valuable insights into project management across all phases of product development.

Machine Learning Intern

Student Innovation Lab 📅 May 2025 - July 2025 📍 Remote

Contributed to machine learning projects targeting data accuracy enhancements in biomedical settings. Worked closely with tech teams to deliver real-world application outcomes.

- Advanced predictive modeling techniques through implementation of specialized algorithms.
- Collaborated on software integration ensuring usability for healthcare practitioners.
- Sought user feedback during testing phases to refine features for optimal performance.
- Documented coding processes and developed instructional materials for future project scalability.
- Fostered creativity by brainstorming solutions during interactive team sessions.
- Developed substantial knowledge regarding foundational ML principles as applied in biomedicine.

LEADERSHIP & AWARDS

- Dean's List, University of Colorado 2024, 2025
- Certificate of Excellence in Biomedical Engineering Innovation 2025

CERTIFICATIONS

- Google Data Analytics Professional Certificate 📅 2026
- Project Management Essentials Certification 📅 2026

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society, 2024 – Present
- Volunteer, Local Health Fair, 2025

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST