



Angel Payne

Biomedical Engineer II

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SUMMARY

Dedicated Biomedical Engineer with over 2 years of hands-on experience in biomedical design and simulation modeling. Proficient in 3-D CAD software, including Solid Works and Autodesk, with a strong foundation in research methodologies and laboratory protocols. Demonstrated ability to manage design projects, develop innovative prototypes, and collaborate effectively with multidisciplinary teams to deliver high-quality engineering solutions. Committed to maintaining research integrity and compliance with institutional policies while contributing valuable insights through comprehensive analysis.

EXPERIENCE

Biomedical Engineer

University Research Lab 📅 June 2025 - Present 📍 Bangor, ME

Designed immersive 3-D simulation models for surgical training, significantly improving educational experiences. Oversaw various engineering projects from concept through completion, collaborating closely with faculty and students for effective protocol development.

- Spearheaded the development of 3-D simulation models for surgical skills training, enhancing educational outcomes for medical students.
- Collaborated with faculty and students to establish laboratory protocols, leading to improved workflow efficiency and compliance with safety standards.
- Designed and tested prototypes for new biomedical devices, resulting in successful presentations at industry conferences.
- Conducted literature reviews and focus groups to inform project direction, ensuring alignment with current biomedical innovations.
- Drafted research papers and grant proposals, contributing to the lab's funding success by analyzing data and presenting findings.
- Managed troubleshooting of CAD software and 3-D printing equipment, reducing downtime and ensuring project timelines were met.

Junior Engineer

Student Innovation Lab 📅 August 2024 - May 2025 📍 Orono, ME

Contributed significantly to team-led anatomical model projects using cutting-edge 3-D printing technology, fostering collaboration between peers and faculty. Developed and refined research protocols to maintain data integrity for various studies.

- Assisted in the design and construction of anatomical models using 3-D printing technology for educational use in medical anatomy courses.
- Developed research protocols under supervision, ensuring the integrity of study data and compliance with institutional guidelines.
- Participated in the drafting of research publications, contributing to the analysis and presentation of experimental results.
- Engaged in team discussions to enhance project designs, incorporating feedback from faculty and students to optimize outcomes.
- Conducted maintenance on laboratory equipment, ensuring reliable operation for ongoing research projects.
- Supported the testing of new materials for simulation models, adjusting parameters based on client feedback and performance metrics.

LEADERSHIP & AWARDS

- Dean's List, University of Southern Maine, 2024-2026

EDUCATION

Bachelor's Degree in Biomedical Engineering

STRENGTHS



Problem-Solving

Often recognized for solving complex engineering challenges, frequently providing creative solutions that changed project trajectories.



Collaboration

Worked seamlessly with interdisciplinary teams, combining insights from both engineering and medical perspectives to achieve optimal results.



Leadership

Enjoy being a mentor and guiding junior engineers, fostering an environment of growth and learning throughout projects.



Communication

Value clear communication and regularly translate technical information into understandable terms for diverse stakeholders.



Attention to Detail

Consistently implement detail-oriented practices during design phases, making an impact by building high-quality models.

SKILLS

3-D CAD Software (SolidWorks, Autodesk)

Biomedical Design

Research Methodologies

Data Analysis

Project Management

Prototype Development

LANGUAGES

English Native

Spanish Proficient

MY CAREER



- Biomedical Engineer at University Research Lab (1.2 Years)
- Junior Engineer at Student Innovation Lab (9 Months)

University of Southern Maine 🎓 GPA: 3.8 📅 2026 📍 Portland, ME
***Coursework:** Biomedical Design, Research Methodologies, Data Analysis, Project Management*

CERTIFICATIONS

- Certified SolidWorks Associate (CSWA) 📅 2026

TECHNICAL SKILLS

- **3-D CAD Tools:** SolidWorks, Autodesk, Blender
- **Research Techniques:** Qualitative Analysis, Focus Groups, Data Extraction
- **Fabrication Technologies:** 3-D Printing, Polymer Molding, CNC Machining
- **Simulation Modeling:** Anatomical Models, Surgical Skills Simulators, Educational Tools
- **Compliance Standards:** Laboratory Regulations, Institutional Review Board Policies, Safety Protocols
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Team Collaboration Software:** Slack, Microsoft Teams, Zoom
- **Presentation Software:** PowerPoint, Google Slides, Keynote
- **Statistical Analysis Tools:** SPSS, R, Excel
- **Engineering Processes:** Design Iteration, Prototype Testing, User Feedback Implementation

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