



Angel Payne

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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 June 2025 - Present
University Research Lab 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 August 2024 - May 2025
Student Innovation Lab 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 2026
University of Southern Maine GPA: 3.8 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

SKILLS

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|---|--------------------------|-------------------------|
| • 3-D CAD Software (SolidWorks, Autodesk) | • Research Methodologies | • Project Management |
| • Biomedical Design | • Data Analysis | • Prototype Development |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST