

Natalie Sharp

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SUMMARY

Passionate biomedical engineer specializing in the design of patient-specific medical devices and surgical solutions. Proficient in advanced 3D technologies and CAD for enhancing surgical outcomes. Experience in managing complex design workflows within ISO-compliant settings while collaborating effectively with surgeons and multidisciplinary teams. Proven ability to mentor junior engineers and optimize operational efficiencies through innovative practices. Committed to continuous improvement and maintaining high standards in medical device development, significantly influencing operating room success.

EXPERIENCE

Biomedical Engineer June 2024 - Present
Innovative MedTech Solutions *Dallas, TX*

Oversee the design and certification of personalized surgical tools. Managing comprehensive project cycles ensures compliance with quality management systems, driving significant improvements in precision and output. Engage closely with interdisciplinary teams to ensure successful collaboration throughout each project, addressing needs effectively.

- Lead design efforts for patient-specific guides, ensuring adherence to ISO 13485 standards.
- Utilize segmentation software for transforming patient scans into precise 3D models.
- Collaborate directly with clinical stakeholders, shaping device specifications.
- Manage equipment maintenance for optimized production workflows.
- Mentor junior staff, fostering a culture of learning and adherence to best practices.
- Support surgical procedures to analyze on-site effectiveness and gather important feedback.

Junior Biomedical Engineer August 2022 - May 2024
Precision Surgical Innovations *San Antonio, TX*

Contributed significantly to surgical guide designs while supporting team goals through effective communication. Engaging in cross-functional collaborations fostered enhanced product development processes that led to greater client satisfaction.

- Assisted in creating prototypes for cutting-edge surgical guides using CAD programs.
- Facilitated team interactions to improve outcome delivery for patient-centered solutions.
- Engaged routinely in quality assurance activities tied to regulatory compliance.
- Provided targeted training for advancements in design protocols among new recruits.
- Refined products based on user input and market analysis for continual innovation.
- Coordinated seamlessly with manufacturing to ramp up efficiency with delivery timelines.

LEADERSHIP & AWARDS

- Dean's List, University of Texas at Austin - 2020, 2021
- 1st Place, National Biomedical Engineering Hackathon - 2022

EDUCATION

Bachelor's Degree in Biomedical Engineering 2022
University of Texas at Austin GPA: 3.8 *Austin, TX*
Coursework: Human Anatomy, Medical Imaging, CAD, Quality Systems

CERTIFICATIONS

- Certified Biomedical Engineer (CBE) 📅 2025
- ISO 13485 Compliance Certification 📅 2026

TECHNICAL SKILLS

- **Design Software:** SolidWorks, Autodesk Inventor, Rhino
- **Segmentation Tools:** ITK-SNAP, Simpleware, Mimics
- **Quality Management Systems:** ISO 13485, FDA Guideline, Risk Management
- **3D Printing Technologies:** Stratasys, Ultimaker, Formlabs
- **Project Management Tools:** Trello, Asana, Microsoft Project
- **Collaboration Platforms:** Slack, Microsoft Teams, Zoom
- **Version Control Systems:** Git, Subversion, GitHub

- **Documentation Tools:** Confluence, Microsoft Word, LaTeX
- **Regulatory Compliance:** GMP, GLP, ISO Standards
- **Data Analysis Software:** MATLAB, Python, R

SKILLS

- 3D Modeling
- ISO 13485 Compliance
- Segmentation Software
- Team Collaboration
- CAD Software
- Medical Imaging
- Project Management
- Technical Documentation

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society - 2020-Present
- Peer Mentor, Engineering Student Association - 2021-2022

LANGUAGES

- English (Native)
- Spanish (Proficient)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST