Priya Raman

Biomedical Engineer

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SUMMARY

Biomedical Engineer with 5 years in Class II and III cardiovascular and orthopedic device development, from test method validation to design verification under ISO 13485 design controls. Works independently on test plans and fixtures, and brings clear communication skills to design reviews with quality, regulatory and manufacturing teams.

SKILLS

- **Design Controls**
- **Design Verification**
- **Test Method Validation**
- **Risk Management**
- **ISO 13485**
- **ISO 14971**
- **SolidWorks**
- **MATLAB**
- **Minitab**
- **Communication Skills**

EXPERIENCE

Biomedical Engineer 03/2023 - Present

Northfield Cardio Devices Minneapolis, MN

R&D team developing a steerable cardiac ablation catheter.

- Write and execute design verification protocols for **14** catheter requirements, all passing on the first build.
- Develop 6 test methods and validate them with gauge R&R studies in Minitab, cutting measurement variation by 30%.
- Model tip deflection in SolidWorks and MATLAB to set design inputs for 3 catheter sizes and 2 shaft stiffnesses.
- Update the risk management file under ISO 14971, adding 40 hazards from bench and animal study findings.

Associate Biomedical Engineer 06/2021 - 02/2023

Riverbend Orthopedic Systems Eden Prairie, MN

Spinal implant company with 60 employees.

- Ran static and fatigue testing on 200 spinal implant samples to ASTM F1717.
- Drafted test reports and design history file sections supporting a 510(k) cleared in 2022.
- Designed 4 test fixtures in SolidWorks that cut setup time per sample from 25 to 10 minutes.
- Maintained calibration records for 30 lab instruments ahead of an FDA inspection with no findings.

EDUCATION

Bachelor of Science 05/2021

University of Minnesota Minneapolis, MN

Biomedical Engineering

CERTIFICATES

Engineer in Training (EIT), Fundamentals of Engineering Exam

NCEES

2021