



Josephine Horton

Principal Biomedical Engineer

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SUMMARY

Dynamic and results-oriented biomedical engineer with over 8 years in sensor research and development. Proven ability to drive innovative technologies that enhance patient outcomes. Leader in managing cross-functional teams, guiding junior engineers, and ensuring regulatory compliance. A resourceful problem solver focused on fostering a culture of continuous improvement within R&D initiatives. Collaborates effectively with stakeholders to integrate sensors into medical devices and has successfully launched multiple new products based on market trends. Eager to contribute expertise to new projects that prioritize both innovation and efficiency.

EXPERIENCE

Principal Biomedical Engineer

Innovative MedTech Solutions 📅 January 2023 - Present 📍 San Francisco, CA

Lead the Sensor R&D department, focusing on developing cutting-edge sensor technologies for medical devices. This role includes strategic oversight of multiple projects while collaborating with internal and external stakeholders to ensure technology adherence to industry standards.

- Conducted detailed analysis of new sensor technologies and led initiatives that improved patient care by integrating innovative solutions into existing devices.
- Developed effective relationships with key industry partners, resulting in collaborations that further explored new sensor developments and business opportunities.
- Managed departmental budget effectively, enabling successful project deliveries and adherence to cost constraints.
- Mentored junior engineers, providing essential guidance and training which elevated team capabilities and performance.
- Stressed compliance with regulatory requirements across all projects, enhancing product safety and reducing time to market.
- Led brainstorming sessions that fostered a culture of creativity, leading to the emergence of several new ideas for future sensor applications.

Senior Biomedical Engineer

Healthcare Innovations Inc. 📅 March 2018 - December 2022 📍 San Diego, CA

Directed the development of new sensor technologies, enhancing their integration into advanced medical systems while advancing departmental strategies and objectives.

- Oversaw technical teams to tackle integration hurdles, streamlining processes that significantly benefited patient monitoring outcomes.
- Crafted compliance methodologies aligned with evolving regulations, ensuring sustained operational integrity throughout sensor development.
- Drove process optimizations that reduced recall rates through robust technical diagnostics and resolutions.
- Fostered stakeholder engagement through consistent communication streams about project statuses and developments.
- Encouraged team collaboration in an agile environment, promoting rapid decision-making and smarter workflows.
- Researched broader market technologies delivering insights that shaped product design components and innovations.

Biomedical Engineer

TechHealth Solutions 📅 June 2015 - February 2018 📍 Irvine, CA

Contributed comprehensively to diverse projects aimed at improving sensor technology deployment for diagnostic enhancements and patient monitoring.

- Collaborated with multidisciplinary teams to execute sensor design projects from concept through implementation stages.

STRENGTHS

👥 Leadership

Successfully guided project teams in delivering innovative medical technologies, significantly building trust among various stakeholders.

💡 Innovation

Championed pioneering approaches in R&D that addressed real-world healthcare challenges and contributed positively to patient experiences.

⚙️ Technical Aptitude

Expertly solved complex engineering problems related to sensors, thus driving advancements towards more efficient patient monitoring.

💬 Effective Communication

Promoted clear dialogue across cross-functional teams, leading to unified goals and successful project execution.

👩‍🏫 Mentorship

Provided training to emerging engineers, showing dedication to their growth and success while building strong team culture.

SKILLS

Biomedical Engineering

Sensor Development

Regulatory Compliance

Cross-Functional Collaboration

Team Leadership

Innovative Problem Solving

Stakeholder Engagement

Technical Analysis

Project Management

Product Development

Research & Development

Process Improvement

Compliance Strategies

Communication Skills

Budget Management

LANGUAGES

English Native

Spanish Intermediate

MY CAREER



● Principal Biomedical Engineer at Innovative MedTech Solutions (3.6 Years)

● Senior Biomedical Engineer at Healthcare Innovations Inc. (4.8 Years)

● Biomedical Engineer at TechHealth Solutions (2.7 Years)

- Regularly performed rigorous quality audits, ensuring compliance with established standards in life science applications.
- Engaged in troubleshooting sessions aimed at resolving technical difficulties, directly impacting project timelines and deliverables.
- Played an active role in transitioning newer technologies to practical use while conducting necessary user training.
- Helped maintain documentation procedures aiding bureaucratic policies, enhancing clarity for subsequent phases.
- Shared knowledge with new hires, facilitating smoother onboarding and efficient team dynamics.

LEADERSHIP & AWARDS

- Dean's List, University of California, Los Angeles – 2013
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EDUCATION

Master's Degree in Biomedical Engineering

University of California, Los Angeles 🎓 GPA: 3.8 📅 2015 📍 Los Angeles, CA

Coursework: *Sensor Design, Medical Device Development, Regulatory Compliance, Research Methodologies*

CERTIFICATIONS

- Certified Biomedical Engineer (CBE) 📅 2016

TECHNICAL SKILLS

- **Medical Device Standards:** ISO 13485, FDA Regulations, CE Marking
- **Engineering Software:** MATLAB, Simulink, ANSYS
- **Sensor Technologies:** MEMS Sensors, Optical Sensors, Biometric Sensors
- **Development Methodologies:** Agile Methods, Waterfall, Lean Practices
- **Data Analysis Tools:** R, Python, Excel
- **Technical Writing Tools:** LaTeX, Microsoft Word, Adobe FrameMaker
- **Project Management Tools:** JIRA, Trello, Asana
- **Regulatory Frameworks:** FDA Guidance Docs, ISO Guidelines, Medical Device Directives
- **Laboratory Equipment:** Spectrophotometers, Oscilloscopes, Multimeters
- **Communication Platforms:** Slack, Microsoft Teams, Zoom

PROFESSIONAL AFFILIATIONS

- Member, Biomedical Engineering Society
- Participant, National Engineering Honor Society

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST