

Josephine Horton

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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

January 2023 - Present

Innovative MedTech Solutions

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

March 2018 - December 2022

Healthcare Innovations Inc.

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

June 2015 - February 2018

TechHealth Solutions

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.
- 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
- Dean's List, University of California, Los Angeles – 2014

EDUCATION

Master's Degree in Biomedical Engineering

2015

University of California, Los Angeles GPA: 3.8

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

SKILLS

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|----------------------------------|------------------------------|--------------------------|-------------------------|
| • Biomedical Engineering | • Team Leadership | • Project Management | • Compliance Strategies |
| • Sensor Development | • Innovative Problem Solving | • Product Development | • Communication Skills |
| • Regulatory Compliance | • Stakeholder Engagement | • Research & Development | • Budget Management |
| • Cross-Functional Collaboration | • Technical Analysis | • Process Improvement | |

PROFESSIONAL AFFILIATIONS

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

LANGUAGES

- English (Native) • Spanish (Intermediate)

ADDITIONAL INFORMATION

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

REFERENCES

AVAILABLE ON REQUEST