ELAINE Y. HUANG

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Profile

Results-driven **Senior Product Designer** with a strong foundation in **user-centered** design and a proven ability to deliver **actionable insights** that drive product innovation in the **healthcare technology** industry. Known for delivering products for a diverse user population, establishing external relations with experts, and fostering cross-functional collaboration to create value-driven solutions within a fast-paced environment.

Experience

Senior Product Designer / Innovation Program Coordinator Sept 2019 – present
Zimmer Biomet, Montreal, QC

Senior Product Designer

- Lead R&D and shipped two novel image-based robotics products for neuro and orthopaedic surgery (Agile, Jira, Confluence, Figma, Python, SQL, MATLAB, DICOM, PACS)
- Navigate FDA, CE and other regulatory environments for product certification and deployment (HIPAA).
- Organize and conduct comprehensive user research and testing to inform product decisions, effectively balancing user needs with technical feasibility and risk management.
- Operate within a complex remote environment with our multinational team in two languages (English & French).

Innovation Program Coordinator

- Fostered innovation within a 200-person R&D department, initiating and supporting research projects in collaboration with external universities, clinicians and hospitals.
- Performed market research, outreach and created proposals that altered or defined upcoming R&D roadmaps.
- Coordinated the creation of an augmented reality proof of concept for total knee arthroplasty surgery for which a patent was filed, and investment approval from the board of directors was secured.

Research and Development Engineering Associate Jan 2018 – Aug 2018
Baylis Medical Company, Toronto, ON

- Designed and analyzed performance tests for a medical device that treats atrial fibrillation

Education & Certifications

Applied Data Science Program: Leveraging AI for Effective Decision-Making
MIT Professional Education

Bachelor of Applied Science, in Biomedical Engineering with Distinction (GPA: 3.87/4.00)
University of Waterloo, Waterloo, ON

- Baylis Medical Award (Bonesai - Capstone Design Project) - Value of $5k

Projects, Publications & Awards

Facial Emotion Detection Using CNNs and TransferLearning Architectures Jun 2024
Applied Data Science Program: Leveraging AI for Effective Decision-Making

Development of Concussion Evaluation Tools Using Life-Like VR Environments HCI International 2018
Sawires, Y., Huang, E., Gomes, A., Fernandes, K. & Wang, D. Development of Concussion Evaluation Tools Using Life-Like Virtual Reality Environments. in 326–333 (2018). doi:10.1007/978-3-319-92279-9_44