ELAINE HUANG

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🌐 https://portfolio2024-huang12211s-projects.vercel.app/

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 relations with industry experts, and fostering cross-functional collaboration to create value-driven solutions within a highly regulated environment.

WORK EXPERIENCE

Zimmer Biomet, Montreal QC   Sept 2019 – present
Senior Systems Designer/ Product Designer
- Lead R&D and shipped 2 novel image-based robotics/navigation products for brain, spine and orthopaedic surgery.
- Navigate FDA, CE and other regulatory environments for product certification and deployment.
- Direct user research to inform product decisions, balancing user needs with technical feasibility and risk.
- Operate within a complex remote environment with our multinational team in English & French.

Innovation Program Coordinator
- Fostered innovation in a 200-person R&D department, launching projects with universities, clinicians and hospitals.
- Initiated market research, outreach and created proposals (including AI) that defined upcoming R&D roadmaps.
- Oversaw the rapid prototyping of an AR total knee arthroplasty surgery device for which a patent was filed, and 100% investment approval from the board of directors was secured.

Baylis Medical Company, Toronto, ON   Jan 2018 – Aug 2018
Research & Development Engineering Associate
- Designed, prototyped 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, Co-op   University of Waterloo, Waterloo, ON
- Graduated with Distinction (GPA: 3.87/4.00)
- Baylis Medical Award (Bonesai - Capstone Design Project) - Value of $5k

SKILLS

Languages: native English & French; basic Chinese	**3D Design**: Solidworks, AutoCAD
UX, UI: Figma	**Relevant knowledge:** Agile, JIRA, Confluence
Programming Languages: Python, SQL, Javascript, Typescript, HTML, CSS, C#, C++, C	

PROJECTS & PUBLICATIONS

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