

Adele Chui, EIT

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Product development, systems design engineer.

I have been building medical device products for the international market for over four years. As a product owner, I am responsible for end to end hardware and software development and regulatory compliance with a team of desktop and web application developers, machine learning engineers, and mechanical and electrical designers. Most recently, I have worked on XSENSOR's ForeSite Intelligent Surface System (FISS), a Class I medical device for pressure injury monitoring and prevention. I have three years of experience building teams - mentoring co-op students and managing four full time employees in a cross-disciplinary engineering team. I am a highly organized team player biased towards data-driven decision making.

SKILLS & TOOLS

- Rapid prototyping and testing
 - 3D printing
 - CAD (Fusion360, SolidWorks)
 - Python scripting, Git version control
 - Microcontrollers & sensors
 - EU, AUS, CAN, US medical device regulatory compliance including EU MDR 2017/745
 - Requirements gathering and feature design
 - Development team scrum master
 - Wireframing & UX mockups, Figma, Balsamiq
 - QA testing
 - Atlassian JIRA & Confluence, Asana, Trello
 - Microsoft Office Suite
 - Administrator for Slack, Teams
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EDUCATION

University of Waterloo, Bachelor of Applied Science. Systems Design Engineering, Class of 2018

SELECTED EXPERIENCE

Product Development Team Lead, XSENSOR Technology Corporation, Jul 2021 - now.

- Product owner for end to end hardware & software development for FISS, product owner for software development for Intelligent Insoles Clinical product
- Manage four full time product development employees, multiple students in internship program
- Ensure compliance to EU MDR 2017/745 and EU, AUS, CAN, US international regulations for 2 medical device product families

Product Development Specialist, XSENSOR Technology Corporation, Jun 2018 - Jul 2021.

- Product owner for end to end hardware and software development for FISS
 - Requirements gathering, wireframing, mockups, feature design, release management, dev team scrum master, stakeholder management, product documentation for web & desktop app
 - Lead integration and handover between machine learning (computer vision) and software team
 - Capture feedback, prototype, and design with mechanical and electrical engineers
- Developed, implemented an 85%+ accurate contactless bio-signal extraction method leveraging sensors and machine learning outputs in conjunction with digital filters
- Maintained compliance to EU, AUS, CAN, US regulations via technical file, IEC 60601-1 & related testing, documentation for 2 medical device product families
- Managed and built out co-op program, consistently hiring two co-op students every four months

Product Design Intern, XSENSOR Technology Corporation, Sep 2016 - Dec 2016 & May 2017 - Aug 2017.

- Rapid prototyping and testing of technology demos, medical devices using Unity, microcontrollers, Python, XSENSOR pressure sensors, Raspberry Pi

Technical Project Coordination, BlackBerry, Jan 2016 - Apr 2016.

- Designed, implemented project management tool for Enterprise PM team
 - Generated business reports, decks using Qlikview for development, management
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