Amy Wu

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Experience

PRODUCT MANAGER (HARDWARE), SMART TECHNOLOGIES; CALGARY, CANADA - OCTOBER 2024 - PRESENT

- Delivered several enhancements to a main-line, K-12 education SMART Board to boost competitiveness in key regional markets, on track to delivering +28% in incremental sales (additional $3M+ in revenue).
- Led the qualification and launch of a Chromebox OPS module, collaborating with internal hardware/software engineers and OEM partners to ensure seamless integration, enhancing classroom efficiency and adoption.

PRODUCT MANAGER, BLD.AI; VANCOUVER, CANADA - MAY 2022 - OCTOBER 2024

- Spearheaded the accelerated development and successful launch of a desktop/mobile safety management platform and a digital twin for an oil super major, achieving project completion and delivery within a 7-month timeframe.
- Developed a first-phase, Human in the Loop AI solution to automate the procurement process of medical supplies with human checkpoints to transition the operations towards full automation by 2026.

MECHANICAL/ELECTRICAL BUILDING ENGINEERING, INTROBA (INTEGRAL GROUP); VANCOUVER, CANADA - 2021

- Initiated and led a pioneering project to automate the integration of plumbing fixtures in Revit using Python and Dynamo, enhancing efficiency and accuracy in design processes - 1/16 the speed of human designers.
- Implemented an automation system for calculating embodied carbon, enabling precise quantification and analysis of the environmental impact of building materials throughout their lifecycle using building models.

MECHATRONICS PRODUCT DESIGNER, DOMETIC; VANCOUVER, CANADA - 2020

- Designed electronic printed circuit assembly, including circuit design and analysis, IC component selection, PCB layout, manufacturing specification generation, prototyping and testing for touchless shaft rotation detection component.

PRODUCT CO-LEAD, COSMIC MEDICAL; VANCOUVER, CANADA - 2020-2021

- Directed a multidisciplinary team of 50 members, including students, engineers, and critical care specialists, in developing an innovative helmet-based ventilation device tailored for COVID-19 patients.
- Successfully secured Health Canada Interim Order authorization for clinical trials in under four months, overseeing testing protocols, regulatory documentation, technical drawings, and detailed device specifications.

Education

UNIVERSITY OF BRITISH COLUMBIA - BACHELOR OF APPLIED SCIENCE (MECHANICAL AND ELECTRICAL ENGINEERING)

- Graduated with distinction
- Selected courses: Industrial Robotics, Sensors and Actuators in Microsystems, Engineering Management, Automatic Control, AI and Machine Learning Applications in Manufacturing, Finite Element Analysis, Statistics
- Trek Excellence Scholarship: awarded to top 5% of undergraduate year and faculty
- Publication: "The COSMIC Bubble Helmet: A non-invasive positive pressure ventilation system for COVID-19", IEEE OJEMB, November 2020

Skills and tools

Programming: Python, C, MATLAB, R, Dynamo

AI/Data Science: Scikit-Learn, TensorFlow, Keras,Pandas, GPT, Stable Diffusion

Tools: Git, JIRA, Kanban, Slack, Trello, Figma

Certification: Certified Scrum Master (CSM®), AWS Partner Accreditation