

Chloe Pilon Vaillancourt

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*Physics Engineer with experience in Robotics, Simulation, Data centers and Multiphysics software.
10+ years of experience in solution architecture and project management.*

EDUCATION

POLYTECHNIQUE MONTRÉAL

Bachelor of Engineering Physics. Recognized by the Ordre des Ingénieurs du Québec with [a feature article for a unique career trajectory](#) of leadership.

Montreal, Canada

May 2022

CÉGEP DU VIEUX-MONTRÉAL

Three-Years Associate Degree in Project Management

Montreal, Canada

May 2015

EXPERIENCE

ROBOT EVEREST

Mountain View, California

FORWARD DEPLOYED ENGINEER

2026–Present

- **Project** : Deployment of the first humanoid on Everest in April 2027
- **Responsibilities and impacts** : Policy training for ascending and upper-body motion considering energy efficiency and human safety gates. Hardware adaptation to harsh environments. Battery Management System Simulation and Actuator Overheating tracking. CAD design of custom end-effectors.

WORKR LABS

SIMULATION ROBOTIC ENGINEER

2026

- **Project** : Deployment of robotic solution in the datacenter vertical
- **Responsibilities and impacts** : Simulation in Isaac Sim (Newton and PhysX). Sensors configuration and optics calibration. SimReady Assets configuration for high-high contact task and Physics + Visuals (OmniPBR, Omniglass, etc.) Materials library. PRD for Data centers vertical. Creation of a Digital twin for GB300 Server manufacturing site. CAD design & 3D printing of custom adapters and camera mounts. Synthetic data generation for CV pipeline.

QARNOT COMPUTING

Paris, France

ENGINEERING PROJECT MANAGER

2024–2026

- **Project** : Multiphysics cloud provider, deploying datacenters with custom racks.
- **Responsibilities and impacts** : Configured and deployed a decentralized datacenter for the first \$2M deal. Ran GPU/CPU discovery with 15 OEM-ODMs (Nvidia, AMD, MSI, Gigabyte) in Taiwan, US and Europe. Built the first internal AI tools: MCP server, self-hosted RAG, post-trained agents with vLLM inference optimization. Launched a Docker workloads and cluster benchmarking platform used for 20+ product sheets and 15+ demos. Documented cross-team and customer workflows: 300+ deals, 200% ARR increase. Led the internal ISO 27001 audit to certification.

MARIE-GOLD(houselabel.ai and marie-gold.com)

Montreal & Paris

FOUNDER, AGENTIC

2018-2026

- **Project** : The first agentic music label - Pivot from a music company (Marie-Gold) after several years of experience as an entrepreneur in the music industry.
- **Responsibilities and impacts** : Redbull Music Canadian ambassador, 100+ major festivals worldwide. Creation of content with 2M views online. Coordination of 40+ people team. Accepted to the Tinyfish MongoDB Incubator to pitch a \$2M pre-seed.

TAKATA SCIENTIFIC RESEARCH CENTER
DATA SCIENTIST

Mahahual, Mexico
2023

- **Project** : Research organization focused on biology and restauration of remote’s coastal ecosystems.
- **Responsibilities and impacts** : Led the development of geospatial analysis platform from satellite imagery, DJI drone 3D mapping and hydrological classification; analysis in QGIS, Python and MATLAB. the Produced Digital Elevation Maps over a 12 km coastal stretch, contributing to a 25% reduction in the Urban Development Plan.

GUARDIAN GLASS & LARFIS
ENGINEER IN ML/PHYSICS, internship

Montreal, Quebec
2022

- **Project** : Laboratory of Functional Coatings and Surface Engineering, a thin-film coatings research lab at Polytechnique Montréal.
- **Responsibilities and impacts** : Deployed a custom neural network and combinatorial optimization of VO2 layer configurations for thermochromic “smart window” coatings, with Guardian Glass. Led a team of five Engineering Physics graduates; developed a novel algorithm for VO2 coating configurations.

S K I L L S

Simulation, 3D & Multiphysics solvers: IsaacSim, IsaacLab, Mujoco, OpenUSD, Blender, OpenFOAM, Siemens Simcenter, ANSYS, Comsol.
AI/ML/Agentic : Multi-agents platform, Post-training (Lora, Qlora, SFT), inference (vllm, Ollama), Pytorch, RAG pipelines, datasets generation and curation
Hardware/CAD : Wireviz, Qelectrotech, Fusion360
Collaborative tools : GitHub, GitLab, Atlassian Suite, HubSpot CRM, Metabase, Solidworks 3Dexperience
General programming : Python (PyTorch), Bash, SQL, MATLAB, SQL

P R I Z E & V O L U N T E E R I N G

1st prize at Robot Everest & Iterate Hackathon, San Francisco 2026
Featured by NVIDIA for a VLM Cosmos project as part of their Cookbook Program, San Francisco 2026
Selected for Design work at Gumloop Design event, San Francisco 2026
World Model SensAI, AMD Devday workshops, GPU Mode IRL (Kernel optimisation), Qdrant Cognition Memory Challenge, San Francisco 2026
AI/ML Montreal MeetUp group Coordinator, Montreal 2023-2024
Scientific Educator at Fusion Jeunesse, Montreal 2018-2020
Member of CubeSat Satellite Polytechnique Group for Ion Motors, Montreal 2019-2020