

Kérian FITER

kerian.fiter@polymtl.ca | kieranfiter.github.io | linkedin.com/in/kerianfiter | github.com/kerianfiter

Education

Polytechnique Montréal, Ph.D. in Computer Engineering – Montréal, Canada Jan 2026 – present

- **Fast-track Admission:** Selected for direct Ph.D. entry based on academic excellence during Master's.
- **Research:** Mitacs Accelerate funding with Michelin. Advisor: Prof. Bentley Oakes.

Polytechnique Montréal, M.A.Sc. in Computer Engineering – Montréal, Canada Aug 2024 – 2026

- **Double Degree** with École Centrale de Nantes. GPA: 4.0/4.0. Expected 2026 (Ph.D. Fast-Track).
- **Outcome:** 1 peer-reviewed publication with an international conference presentation.

École Centrale de Nantes, M.Sc. in Engineering (Diplôme d'Ingénieur) – Nantes, France Aug 2022 – 2026

- **Grande École System:** Top 5% of French engineering schools. GPA: 3.7/4.0. Expected 2026 (Double Degree).
- **Curriculum:** Rigorous multidisciplinary education (Applied Math, Physics, CS) with specialization in XR & 3D.
- **Leadership:** IT Manager (Student Bureau), Tennis Club President, VP of Entrepreneurship Club.
- **Awards:** XR Hackathon Winner (Laval Virtual Center / CLARTE)

Experience

Software Engineering Intern (Mitacs Accelerate), Michelin – Montréal, Canada Jan 2026 – present

Software Engineering Intern, Naval Group Pacific – Adelaide, Australia Apr 2024 – Aug 2024

- Engineered multi-agent drone simulations in maritime environment for the LOTUSim combat Digital Twin.

Software Engineering Intern, Orange Innovation – Lannion, France June 2023 – July 2023

- Implemented automated drift verification for anechoic chamber measurements, enhancing calibration accuracy for 5G/6G antenna arrays.

Technical Skills

Languages & Core: Python, C++, C#, JavaScript, SQL, Dart, Ontology (OML)

3D, XR & Robotics: Unity, Godot, Unreal, Blender, OpenGL (GLSL), Meta XR, ROS2, Gazebo, OpenCV

Tools & Web: Git, Docker, CI/CD, Linux, Firebase, Heroku, HTML/CSS/JS, Flutter, Wordpress, Shopify

AI & Math: LLMs, Neural Networks, Linear Algebra, Optimization, Statistics, Numerical Computing

Spoken Languages: French (Native), English (Bilingual/Fluent), Spanish (Intermediate)

Publications

DTInsight: A Tool for Explicit, Interactive, and Continuous Digital Twin Reporting Oct 2025

K. Fiter, L. Malassigné-Onfroy, B. Oakes

10.1109/models-c68889.2025.00030 (EDTconf (MODELS-C) 2025)

Projects

Montreal Bus Fleet Digital Twin – (Master's Project) | Godot, Python, RabbitMQ Jan 2025 – May 2025

- Developed a real-time visualization for a digital twin representing STM's bus fleet

Virtual Reality Narrative Game – (Master's Project) | Unity, Meta XR, C#, Blender Aug 2024 – Dec 2024

- Developed an immersive narrative game with hybrid control (controller for movement + hand for interactions)

Augmented Reality Web Startup – (SNEE) | HTML/JS, Heroku, DeepAR Jan 2022 – Dec 2022

- Founded an AR web startup; developed full-stack application and defined pricing strategy for market entry.