

Kérian FITER

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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.	