Nicholas Nadeau

CTO, PROFESSIONAL ENGINEER (P.ENG.), DOCTOR OF PHILOSOPHY (PH.D.)

Montréal, Canada

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SmartOne	Montréal, Canado
Chief Technology Officer	2024 - Present
• Product innovation and R&D, focusing on ethical AI and human-AI collaboration for operational excellence.	
Acrylic Robotics, BRIDGR, XMachina, XPR Labs	
Advisor and Investor	2020 - Present
 Empowered startups with AI-driven operational enhancements and strategic growth mentoring. Facilitated access to high-growth AI startups and to advancing metaverse accessibility. 	
Nadeau Innovations	Montréal, Canado
Founder	2022 - 2024
Strategic support for emerging technology startups and corporate innovation.	
Airbotics, Citera, FemTherapeutics, Gratified, KonnectAI, NuBinary, OpAI Innovations, Osede	a
Fractional CTO	2022 - 2024
Spearheaded technology strategies and innovation across AI/ML and emerging technologies.	
1X (Halodi Robotics)	Montréal, Canada & Oslo, Norway
Chief Technology Officer	2021 - 2023
 Spearheaded development of humanoid robots, securing a pivotal contract with ADT Commercial. Facilitated over \$100M in funding, with notable contributions from OpenAI. Drove global expansion, laying the foundation for advanced robotics and AI/ML initiatives. 	
AON3D	Montréal, Canado
Engineering Manager	2018 - 2021
 Led engineering through \$11.5M Series A funding, enhancing 3D printing innovation. 	
Rogue Research Inc.	Montréal, Canado
R&D Engineer	2011 - 2018
Led R&D in medical device innovation, including cognitive neuroscience and veterinary robotic surgery.	
Education	
	Mantaíal Caraad

École de technologie supérieure	Montréal, Canada
Ph.D Al and Collaborative Robotics	2014 - 2019
 Innovated safer, intuitive collaborative robotics with a thesis on freehand ultrasound, advancing human-robot interaction. Developed AI/ML models for improved physical human-robot interaction, redefining controller tuning and calibration. Created <i>Pybotics</i>, a popular open-source toolbox for robotics kinematics. 	

McGill University

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B.Eng. - Mechanical Engineering, Biomedical Engineering

Montréal, Canada 2010 - 2014

Skills & Certifications

Certifications Open Water Diver (PADI), Professional Engineer (Ordre des ingénieurs du Québec) Technical Leadership Agile Methodologies, Strategic Innovation, Technology Roadmapping Software & Tools CI/CD, Cloud Platforms, Data Engineering, DevOps, Docker, Infrastructure as Code, Simulation AI/ML Technologies Computer Vision, Generative AI, MLOps, Natural Language Processing, Reinforcement Learning **Programming Languages** C/C++, Go, Java, JavaScript (Node.js), Python, Rust Languages English, French

Select Publications

	Improved Test Methods for Polymer AM Inter-Layer Weld Strength and Filament Mechanical Properties,
2020	Richard G. Cole, Kazem Fayazbakhsh, Abraham Avalos, Nicholas A. Nadeau. ASTM International Conference on
	Additive Manufacturing (ICAM).
2019	Towards the development of safe, collaborative robotic freehand ultrasound, Nicholas A. Nadeau. École de
	technologie supérieure.
2019	Pybotics: Python Toolbox for Robotics, Nicholas A. Nadeau. The Journal of Open Source Software.
2019	Impedance Control Self-Calibration of a Collaborative Robot Using Kinematic Coupling, Nicholas A. Nadeau,
	Ilian A. Bonev. MDPI Robotics.
2018	Evolutionary Motion Control Optimization in Physical Human-Robot Interaction, Nicholas A. Nadeau, Ilian A.
	Bonev. IEEE/RSJ International Conference on Intelligent Robots and Systems (IROS).
	An Extrinsic Dexterity Approach to the IROS 2018 Fan Robotic Challenge Modality B, Jennifer Kwiatkowski,
2018	Jean-Philippe Roberge, Nicholas A. Nadeau, Louis L'Écuyer-Lapierre, Vincent Duchaine. IEEE/RSJ International
	Conference on Intelligent Robots and Systems (IROS).
	Characterization of a robotic micro-surgical system for small-animal neurosurgery, Nicholas A. Nadeau,
2017	Alexandru Ciobanu, Fred Lamer, Mathieu Coursolle, Sean McBride, Stephen Frey, Roch Comeau. Society for
	Neuroscience.

Volunteer & Committees

- 2022 Startup Mentor, Next Al
- 2022 Startup Mentor, Creative Destruction Lab (CDL)
- 2021 Technical Committee ISO/TC 299 - Robotics, Standards Council of Canada Mirror Committee
- Mentor, Techstars Montréal AI Accelerator 2020
- Mentor, FounderFuel Startup Accelerator 2020
- 2018 Committee F42 on Additive Manufacturing Technologies, ASTM International