

ABDELRAHMANE FERCHICHI

Innovation & Intelligent Systems Lead (AIoT, SaaS, Product Development)

• Vancouver & Montreal, Canada • PR Holder (Canada) • French citizenship abdel.fpro@gmail.com +1 581-999-4686

SELECTED ACHIEVEMENTS

- **2 patents filed in AIoT systems**
- **\$2M+ innovation grants secured**
- **\$10-20M annual revenue from IoT-enabled products**
- **Led 10+ engineers** (HW, SW, Cloud)
- **Managed €14M R&D investment**

TECHNICAL SKILLS

- Python
- MicroPython
- React Js
- Edge AI
- AIoT Architecture
- Prototyping
- Hardware-Software Integration

CLOUD • DEVOPS • TOOLS

Azure DevOps • Docker • Git • CI/CD • Jira • Scrum • SaaS • Quality Processes • Agile & Lean.

SOFT SKILLS

- Leadership & Team Coaching
- Innovation & Strategic Thinking
- Cross-functional Collaboration
- Technical Writing & Communication

CORE COMPETENCIES

Innovation • Collaboration • Proactivity • Communication • Strategic Thinking • Adaptability.

LANGUAGES

French (Native) • English (Fluent) • Arabic (Intermediate)

EDUCATION

2021 — Master’s, Digital Transformation - Smart and Sustainable Cities, Université Laval (QC).

2016 — Engineer’s Degree (R&D 3-year apprenticeship at CEA), CESI, Nice .

2013 — Preparatory Program, Lycée Monge, Chambéry, France.

2011 — Technical Baccalaureate, Industrial/Mechanical Engineering, Lycée Monge.

CERTIFICATIONS

Scrum Master • JS Web Dev • IoT • Big Data • Data Science • Azure Cloud

PROFESSIONAL SUMMARY

Results-driven engineering leader with **12+ years of experience** in **AIoT, SaaS,** and **Cloud** product innovation. I lead cross-functional teams to design, build, and deploy scalable solutions for smart-facility and healthcare markets. Proven track record in securing **\$2M+ innovation funding**, managing **\$5M R&D programs**, and delivering products generating **\$10-20M annual revenue**. Passionate about transforming cutting-edge technologies into real-world impact, with expertise in **AIoT, Edge AI, Cloud (Azure/AWS), Product Roadmap,** and **R&D Strategy**.

PROFESSIONAL EXPERIENCE

Co-Founder & Head of R&D Domely Technologies

Montreal, QC • 2020–Present

- Lead and scale **R&D programs totaling \$5M**, securing **\$2M+ public innovation grants** and **\$1M private funding**.
- Design, build, and deploy **AIoT solutions** integrating hardware, embedded systems, **Edge AI**, and **Cloud architectures**.
- Manage product roadmaps, **DevOps** pipelines (**CI/CD, Agile delivery, Scrum**), and cross-functional leadership.
- File **2 patents** in AIoT systems; products generating **\$0.5M annual profit** and adopted in multiple commercial deployments.
- Drive innovation in **Edge computing**, IoT data pipelines, and Cloud-native architectures to deliver robust, scalable AIoT products for commercial deployment.

Programmer Analyst Desjardins

Lévis, QC • 2020–2021

- Optimize enterprise Java applications for scalability and reliability.
- Support **CI/CD** and **Agile** sprints to deliver robust backend solutions.

Product Manager & Technical Architect Umano Medical

Lévis, QC • 2018–2020

- Led the design, development, and deployment of **IoT-enabled hospital beds** with **Edge AI analytics**, generating **\$10-20M annual revenue** across **60+ hospitals** in Canada and Europe.
- Drive product strategy, market positioning, and commercialization.
- Deliver full-stack solutions and establish **Agile R&D frameworks (SAFe, Scrum)**.

R&D Engineer Ministry of National Education

Grenoble, France • 2018

- Contributed to the **national dev team** creating digital platforms for **2.8M students** and **800K teachers**.
- Developed research project management tools using **Angular.js** and **Java Spring**.
- Authored functional specs, facilitated Agile ceremonies, and conducted UAT.

R&D Engineer (Startup Project) Mobile Healthcare App

Grenoble, France • 2017

- Lead development of a connected healthcare MVP from feasibility to prototype.

R&D Engineer CEA - French Alternative Energies & Atomic Energy Commission

Grenoble, France • 2013–2016

- Led R&D on next-generation **photovoltaic cells** and precision laser-cutting processes.
- Developed internal tools improving cost forecasting and research efficiency.
- Managed **€14M in R&D investment**.