

ABDELRAHMANE FERCHICHI

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

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

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 • SAFe • 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

- Professional Scrum Master (PSM)
- JavaScript Web Developer (Angular, Node.js, Express)
- IoT Fundamentals • Big Data • Data Science • Azure Cloud

PRODUCT & STRATEGY

- Product Management
- R&D Management
- Vendor Management
- Market Analysis
- Technical Communication

PROFESSIONAL SUMMARY

Applied R&D engineer and team leader with **12+ years of experience** in AIoT, SaaS, and product innovation. Started at the **CEA** (French Alternative Energies & Atomic Energy Commission), where I learned to bridge scientific research with real-world applications. Over the past 6 years in **startup environments**, I’ve led multidisciplinary projects from concept to commercialization, driving engineering, strategy, and go-to-market execution. A versatile, results-driven engineer with a strategic mindset, passionate about turning **innovation** into tangible impact.

PROFESSIONAL EXPERIENCE

Co-Founder & Head of R&D – Operations Domely Technologies

Montreal, QC • 2020–Present

- Managed R&D programs worth **\$5 M**, securing over **\$2 M** in public innovation funding.
- Led **AIoT innovation** from concept to production, integrating hardware, software, and edge intelligence.
- Hands-on in R&D — designing, coding, and testing **AIoT prototypes** from hardware to cloud integration.
- Built **product roadmaps**, R&D pipelines, and DevOps automation for scalable deployment.
- Oversaw suppliers, budgets, and IP protection, with **2 patents** filed and products generating **\$500 K** annual profit.

Programmer Analyst Desjardins

Lévis, QC • 2020–2021

- Enhanced enterprise Java applications within **Agile sprints** ensuring reliability and collaboration.
- Improved **backend scalability** and supported **CI/CD** for consistent deployments.

Product Manager & Technical Architect – IoT Solutions Umano Medical

Lévis, QC • 2018–2020

- Designed next-generation **smart hospital-bed systems** with IoT monitoring and edge analytics — now generating **\$10–20 M annual revenue**.
- Defined product strategy and market positioning, driving commercialization in **60+ hospitals**.
- Led full-stack development and established an Agile R&D framework (**SAFe, Scrum**).

R&D Engineer Ministry of National Education

Grenoble, France • 2018

- Contributed to the **national dev team** creating digital platforms for **2.8 M students** and **800 K 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

- Led development of a connected **healthcare app** — from feasibility study to prototype using .

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

Grenoble, France • 2013–2016

- Researched **flexible CIGS** and **silicon photovoltaic cells**, optimizing precision laser-cutting processes.
- Built internal project-tracking web tools improving cost forecasting and research efficiency.
- Managed a **€14 M investment plan** and commissioned high-tech lab equipment worth **€500 K**.