

ABDELRAHMANE FERCHICHI

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

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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 • 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

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

PROFESSIONAL SUMMARY

Engineering leader with **12+ years of experience** driving innovation across **AIoT**, **SaaS**, and **Cloud-connected products**.
Started at the **CEA**, bridging scientific R&D with real-world applications before leading AIoT product development in fast-paced startup environments.
Experienced in building cross-functional teams, developing scalable **Edge AI systems**, and turning advanced research into impactful, market-ready technologies.

PROFESSIONAL EXPERIENCE

Co-Founder & Head of R&D and Operations **Domely Technologies**

Montréal, QC • 2019 – Present

- Built and scaled end-to-end **R&D** and **operations** for **AIoT** and **SaaS products** from concept to commercialization.
- Directed **\$5M R&D programs**, securing **\$2M+ public funding** and **\$1M private investment**.
- Delivered connected **IoT systems** combining **sensors**, **embedded devices**, and **cloud architectures** adopted in multiple deployments.
- Supervised **multidisciplinary teams** and aligned **R&D** with **Agile** and **DevOps** delivery practices.
- Filed **2 patents** and improved **production**, **logistics**, and **customer feedback** for greater scalability.

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 IoT connectivity and SaaS integration for smart hospital beds, deployed in **60+ hospitals** and generating **\$10-20M in annual revenue**.
- 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 - Photovoltaic Systems & Solar Technologies **(CEA-INES)**

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**.