

ABDELRAHMANE FERCHICHI



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

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SOFT SKILLS

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

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.

CORE COMPETENCIES

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

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, France .

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

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

CERTIFICATIONS

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

LANGUAGES

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

PROFESSIONAL SUMMARY

Hands-on R&D and product leader with **12+ years** in AloT, SaaS, and Cloud systems. From CEA (French Alternative Energies and Atomic Energy Commission) to startup innovation, I've designed and delivered **connected products** that bridge hardware, software, and data. Proven track record leading **cross-functional teams** and scaling IoT architectures into market-ready solutions.

PROFESSIONAL EXPERIENCE

Co-Founder - R&D & Operations Lead | AloT, SaaS | Domely Technologies

AI-powered IoT solutions for roof protection and home safety | Montréal, QC • 2019 – Present • domely.io

- Led R&D and operations for AloT, integrating SaaS components from **concept to commercialization**.
- Managed **\$5M** in R&D programs and secured over **\$3M** in public and private funding.
- Developed IoT solutions combining sensors, embedded systems, and cloud architectures, with **2 patents filed**.
- Optimized production, logistics, and customer feedback processes, generating over **\$500K** in annual profit.

Programmer Analyst | Desjardins

Lévis, QC • 2020-2021

- Contributed to improving core banking features used by **millions** of clients.
- Developed and integrated RESTful APIs, wrote technical documentation and functional specifications.
- Supported **CI/CD (Continuous Integration and Deployment)** and optimized Java enterprise applications for performance and reliability.

Product Manager & Technical Architect | Umano Medical

Lévis, QC • 2018-2020

- **Led IoT connectivity and SaaS integration** for smart hospital beds, deployed in several 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 | French Ministry of National Education

Grenoble, France • 2018

- Contributed to the national development team creating digital platforms for **2.8M** students and **800K** teachers.
- Developed research **project management** tools using Angular.js and Java Spring.
- Authored functional specifications, facilitated Agile, implemented CI/CD 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 (National Institute of Solar Energy)

Grenoble, France • 2013-2016

- **Involved in 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 investments and commissioned **€500K** in advanced lab equipment.