



Abdelrahmane Ferchichi, M. Sc

Product Leader & Builder | AI, SaaS, IoT & MLOps | From R&D to Market

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Innovation, Collaboration • Proactivity, Communication • Strategy, Adaptability • Technical Storytelling

AI and IoT product leader with 12+ years of experience turning complex ideas into useful products. I am passionate about bringing technology, data, and people together to solve real-world problems.

— skills

SKILLS

Product Management & Operations

Strategy, Roadmapping, Scrum, Kanban, Lean, Jira, HubSpot, Odoo, OKRs

Systems & R&D Engineering

Architecture, Requirements, IP & Patents

AI, Machine Learning & MLOps

Python, PyTorch, Scikit-learn, MLflow, Data Pipelines, Model Deployment & Monitoring

Cloud & Software

React.js, FastAPI, Docker, CI/CD, PostgreSQL

AIoT & Connected Systems

AIoT, Embedded Systems, IoT

— education

EDUCATION

MLOps & AI Systems Specialization

Polytechnique Montréal - Montréal, QC, Canada - 2026 • In progress

Master's Degree - Intelligence & Transformation

Université Laval - Québec City, QC, Canada - 2021

Engineering Degree - Industrial Engineering (R&D Focus)

CESI Graduate School of Engineering - Nice, France - 2016

— certifications

CERTIFICATIONS

Professional Scrum Master

Web JavaScript Developer

M2I Formation - France - 2017

CÉGEP Sainte-Foy - Québec

IoT & Big Data

Microsoft Azure

Cégep Sainte-Foy - Québec

Data Science

Cégep Sainte-Foy - Québec

— experience

PROFESSIONAL EXPERIENCE

Head of R&D IoT

Mar 2026 – Present

SOPREMA | Montréal, QC, Canada

- **Continuity:** Support IoT R&D and product strategy following Domely's acquisition by SOPREMA.
- **Industrial integration:** Develop and scale AIoT solutions adapted to industrial needs and integrated into a larger product ecosystem.

Co-Founder | VP R&D & Operations | Acquired

Dec 2020 – Mar 2026

Domely Technologies | Montréal, QC, Canada

Built an AIoT and SaaS solution for predictive roof risk management, taking the product from concept to real-world deployment and acquisition in 2026.

- **Product development:** Led the development of AIoT products combining IoT devices, embedded systems, SaaS platforms, and field data pipelines supporting AI-driven features.
- **Product strategy & lifecycle:** Defined roadmap and feature priorities while managing the full product lifecycle from prototyping to commercialization, aligning engineering teams, customers, and business objectives.
- **Team coordination:** Coordinated R&D teams, partners, customers, supply chain, and operational activities to support scale-up.
- **Funding & partnerships:** Managed **\$5M+** in R&D programs, secured **\$3M+** in funding, and developed strategic partnerships.
- **Innovation protection:** Filed multiple patents protecting proprietary technologies.
- **Awards:** **People's Choice Award 2024 (International Roofing Expo)**, **Grand Prize (InsurTech Québec)**.

Software Engineer

Jul 2020 – Dec 2020

Desjardins | Lévis, QC

- **Banking products:** Helped deliver critical features used by millions of customers, targeting reliability, security, and a seamless digital experience.
- **Integration:** Designed and integrated REST APIs with associated technical and product specifications.
- **Continuous delivery:** Maintained enterprise Java applications and CI/CD pipelines.
- **Collaboration:** Worked with product, architecture, and delivery teams according to user and operational needs.

Product Manager & Technical Architect

Sep 2018 – Jul 2020

Umano Medical | Lévis, QC

- **Connectivity:** Led IoT and SaaS integration for smart hospital beds deployed across multiple facilities, generating **\$10-20M** in annual revenue.
- **Team management:** Supervised and mobilized a team of developers delivering IoT, SaaS, and full-stack solutions.
- **Product strategy:** Defined roadmap, technical priorities, market positioning, and KPIs based on user needs.
- **Industrialization:** Collaborated with technical, product, and sales teams to support manufacturing and product execution.
- **Continuous improvement:** Implemented Agile, Scrum, Kanban, and SAFe practices to structure execution and support **\$2-3M** in R&D investment.

LANGUAGES

French

Native

English

Fluent

Arabic

Intermediate

Software Engineer, Digital Platforms

Jan 2018 – Aug 2018

Ministère de l'Éducation nationale | Grenoble, France

- **Impact:** Supported the evolution of national platforms serving **2.8M** students and **900,000** teachers.
- **Development:** Helped build project management tools using Angular and Java Spring.
- **Product:** Gathered requirements and wrote product and functional specifications.
- **Delivery:** Participated in Agile practices, CI/CD pipelines, and continuous delivery.

R&D Engineer, Connected Health

Jan 2017 – Oct 2017

Startup Project | Grenoble, France

- **Connected product:** Drove a connected-health **MVP** from feasibility study to functional prototype.
- **Design:** Combined electronics, connectivity, software, and user experience.
- **Validation:** Assessed deployment constraints and validated prototype relevance with stakeholders.

R&D Engineer, Photovoltaic Technologies

Oct 2013 – Sep 2016

CEA | Grenoble, France

- **Applied research:** Worked on next-generation photovoltaic cells and high-precision laser processes.
- **Industrialization:** Led the installation of silicon laser-cutting equipment, from requirements definition to commissioning.
- **R&D management:** Developed cost forecasting, project tracking, and efficiency analysis tools.
- **Investments:** Coordinated multidisciplinary projects, oversaw **€15M** in R&D investments, and ordered **€500K** in laboratory equipment.