

Pierre-Antoine FARIBAUD

Aspiring Biomedical Researcher

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Research interests: Biomedical AI, clinical data, time-series ML, signal processing, neurotechnology (transferable methods)

EDUCATION

BME Paris Master's Program – Neurotechnology Incoming 2026

Université PSL & Université Paris Cité (fully taught in English)

- Highly selective, research-oriented Master's program bridging Data/AI and Biomedical/Neurotechnology; includes a 6-month research internship abroad.

Arts et Métiers ParisTech (ENSAM) 2024 – Present

Combined BS and MS in Mechanical and Industrial Engineering

- Top French Graduate Engineering School (industry-oriented, generalist).
- Relevant coursework: Solid Mechanics, Energetics, Materials, Manufacturing, Product Design, Industrial Organization, Probability & Statistics, Optimization, Computer Science, Electronics.

Lycée Marcelin Berthelot (CPGE) 2021 – 2024

Preparatory Classes – Mathematics, Physics, Engineering Sciences (MPSI/PSI)

- Top French preparatory program in science; intensive training in mathematics, physics and engineering sciences.

Lycée Albert de Mun 2018 – 2021

High School Diploma (Mathematics, Physics) – with honours

WORK EXPERIENCE

AMJE (Junior Enterprise – Arts et Métiers) — IT Officer (Chargé SI, IT/AI Pole) Nov 2025 – Present

Objective: Support AMJE's operations through robust web platforms, internal tools and automation

Paris, France

- Improve AMJE websites and internal IT tools; develop client websites.
- Teamwork-focused delivery with clear documentation and reliability.
- Best Junior-Enterprise in France (CNJE Excellence Award, 2024); €300k+ annual revenue.

Internship – TECHWAVE/OPEO (BPI financing) Dec 2024 – Jul 2025

Objective: Industrial AI/Data integration in a mechanical & electronics company

Paris, France

- Intermediary between AI consultancy OPEO and Techwave engineers.
- Contributed to requirements definition and validation of ML workflows (confidential context).

Internships – MES / TECHWAVE Manufacturing 2017, 2020

Objective: Apply CAD prototyping and support manufacturing process improvements in production settings

Brest, France

- 3D CAD modeling (SolidWorks) and prototyping via 3D printing.
- Improved SMT (SMD) and screen-printing processes; supported Airbus A400M production.

SELECTED PROJECTS

Machine Learning Project: Diabetes Detection from Clinical Data 2025 – 2026

Objective: Build and validate ML models for diabetes screening from structured clinical variables

- Preprocessed a clinical dataset (cleaning, handling missing/zero values, normalization).
- Compared models (KNN, linear SVM, Random Forest) using confusion matrices, emphasizing false negatives.
- Explored unsupervised clustering (K-means) to study population structure.

Project Lead – Modular Fountain for Arts et Métiers Gala (Team of 10) Sep 2025 – Dec 2025

Objective: Led a 10-person team to deliver a modular fountain for a ~4,000-attendee event

- Led planning, task allocation and delivery milestones; ensured readiness for the school Gala welcoming ~4,000 attendees.
- Combined fluid mechanics calculations with wood/metal fabrication and artistic constraints; executed a precise on-site assembly workflow.

Awake Project (Autonomous vehicle competition) Sep 2024 – Jan 2025

- Engineering school competition: contributed to chassis machining, electronics integration and system assembly.

LEADERSHIP AND ACTIVITIES

Tennis Association (Arts et Métiers) — Captain & President 2024 – Present

- Lead training sessions, manage operations and represent the club in competitions.

Sailing Instructor & Skipper 2021 – Present

- Sailing at regatta/competition level; skipper for cruises: navigation planning, crew coordination and onboard safety.

Mathematics & Physics Tutor (High School) 2024 – Present

- Tutored mathematics and physics to high school students.

SKILLS AND INTERESTS

Languages: Native French; Fluent English; Fluent German

Programming: Python, SQL, MATLAB/Simulink, Arduino

Software: Microsoft Office, 3DEXperience, CATIA V5, Star-CCM+

Licenses: Driving license; Boating license

Interests: Tennis (UTR 5.5), Sailing (regatta/competition), Skiing (competition), Football, Chess