

# Grégoire FIDAIRE

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First-year engineering student at ENSAM ParisTech — systems, data processing & design

## EDUCATION

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**ENSAM ParisTech – General Engineering Degree** 2025 – 2028

École Nationale Supérieure des Arts et Métiers ParisTech — one of France's most selective engineering schools

**Lycée Richelieu, Rueil-Malmaison – CPGE (TSI)** 2022 – 2025

Three-year intensive preparatory class for competitive entrance exams to top engineering schools

- Relevant coursework: Mathematics, Physics, Industrial Engineering, Computer Science, Electronics

## PROJECTS & EXPERIENCE

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**ENSAM Semester Project** Jan 2026 – May 2026

*Design of ergonomic objects for children with fine motor disorders*

- Established dialogue with medical and paramedical staff to identify and meet their needs
- 3D design of ergonomic objects to facilitate independent use for children

**End-of-Prep Project – LiDAR Study** 2025-2026

*Study of LiDAR use in urban environments*

- Acquisition and processing of sensor data using Python
- Development and comparison of filtering algorithms (sliding median, truncated mean, weighted mean)
- Analysis of the impact of each method on measurement accuracy

**End-of-Prep Project – Foil Boat** 2024-2025

*Study of lift on a foil boat*

- 3D design of foils using SolidWorks
- Numerical modelling via digital twin simulation
- Design and construction of an experimental test basin (200×25×20 cm)

**High School Project – Motorcycle Helmet Lighting** 2021 – 2022

*Design of an integrated lighting system for a motorcycle helmet*

- Analysis of technical and safety constraints
- Design of an adapted solution (ergonomics, integration)
- Problem-solving approach and prototyping

## VOLUNTEER EXPERIENCE

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**School Outreach Volunteer** 2020 – 2022

*Academic tutoring for children in difficulty*

- Clear and effective communication adapted to each child's level
- Flexible adaptation of teaching methods to individual learning needs

## SKILLS

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**Programming & Tools:** Python, Matlab, 3DExperience, SolidWorks, Arduino

**Other skills:** Machine Learning, Project Management, Teamwork, Organisation, Creativity

**Languages:** French (Native), English (C2), Spanish (B1)

**Interests:** Reading, Hiking, Competitive Tennis, Skiing, Piano (10 years), Cooking