Romain CARRIERE

Software Engineering Student

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Fourth-year engineering student specializing in Networks & Embedded Systems, with strong skills in Python, C/C++ and Linux. Proven ability to build projects end to end, from design to working prototype, and to take ownership of critical responsibilities as Treasurer of a student consulting firm. Quick learner, strong collaborator, seeking a Summer 2027 Software Development Engineer internship to build scalable software that impacts customers.

Professional experience

Treasurer, Physique Strasbourg Ingénierie (PSI) — student consulting firm of Télécom Physique Strasbourg (18 members) Since Mar. 2026

- Took over and stabilized failing finances mid-mandate through self-training
- Managed finances for a business with €8k revenue across 4 client projects
- Led the transition from Junior Initiative to full Junior-Entreprise status, officially recognized for management quality
- Ensured tax and accounting compliance (VAT, invoices, quotes) with personal legal responsibility

Private Tutor: Computer Science, Mathematics and Physics, self-employed — Strasbourg Since Sept. 2025

- Tutored 3 to 4 middle and high school students simultaneously
- Managed scheduling independently alongside full-time studies
- Explained complex concepts clearly to learners

Education

Télécom Physique Strasbourg, Engineering degree in Computer Science & Networks — End expected in 2028 From 2025 to 2028

- Software & algorithms: Algorithms & C Programming, Object-Oriented Programming, Graph Theory, Software Architecture, Compiler Design, Distributed Algorithms, Programming Project
- Systems & cloud: Operating Systems, System Programming, Parallel Programming, Cloud & Virtualization, Databases
- Networks & security: TCP/IP, Network Programming, Cybersecurity
- Also: Embedded Systems, Machine Learning

CPGE PCSI-PSI, Lycée François Arago — Perpignan From 2022 to 2025

- Intensive preparatory program in computer sciences (python), mathematics, physics and engineering sciences

Technical Projects

Self-Adjusting Sail Control System for an RC Sailboat (2024-2025)

- Designed and 3D-printed the hull; developed the automatic sail control in C/C++ on Arduino
- Tested in a water basin and iterated until reaching a functional prototype

Hydrofoil Performance Study (2023 – 2024)

- Built a test bench to measure lift as a function of speed and angle of attack
- Modeled the system in Python and compared theoretical and experimental results

Skills and Interests

- **Proficient:** Python, C/C++, Linux/Bash
- **Regular use:** SQL, Git, Shell, Arduino
- **Familiar with:** HTML/CSS/JS, MATLAB
- **AI-assisted development:** prototyped a set of web tools using LLM-assisted coding (prompt-driven, reviewed and deployed by me)
- **Languages:** French (native), English (C1), German (A2)
- **Soft skills:** Reliability, teamwork, autonomy, communication
- **Interests:** Competitive sailing (10 years), triathlon, guitar, 3D design

References

Available on request