

HUGO PIGNATONE

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+33 6 52 65 10 80

Driving licence and own car

CERTIFICATIONS

- 2022 - Pix
- 2025 - SENSE

SKILLS

LANGUAGES

French - Native language

English - B2

German - A2

Apprentice in Digital Science at INP ENSEEIHT within Thales Alenia Space

Apprentice software engineer at Thales Alenia Space, where I work on encryption software for the ground segment. I like to understand a problem before choosing a solution, and I favor simple approaches that hold up over time. I take my team's feedback into account to keep improving. Trail running and weightlifting have taught me consistency and endurance. I travel whenever I can, out of interest in cultures and history. I learn new tools and languages quickly, such as Rust this year.

PROFESSIONAL EXPERIENCE

2025/2028 - Apprenticeship, Cryptographic Software Developer, Thales Alenia Space

- C++ / GTK development in a complex, multi-product architecture (authentication hardening).
- C++ to Rust migration: proof of concept of a product and its Web/Desktop interface (Dioxus), analysis of libraries, costs, and industrialization challenges.
- Communications validation: automated generation of TOML files with Python.
- Industrial requirements: automated testing, GitLab CI, code analysis (SonarQube, Coverity), cybersecurity.
- **Skills**: rigor, autonomy, code quality, securing satellite communications.

2025 - Internship / Fixed-term Contract, IT Department, SAFIBRI Group

- Redesign of PDF/DOCX exports (FreeMarker) and DOCX→PDF pipeline.
- Quality assurance: controls, fallback, versioning, documentation → reduced MTTR.
- PRAXEDO webservices: mapping, validations, reliability (logs, retries, quotas).
- Interfaces to Sage X3 (SQL procedures, controls, traceability).
- Testing/validation on Forbach & Heillecourt sites, test campaigns using Squash.
- X3 import tool: pre-checks, real-time monitoring, reporting.
- **Skills**: resilience, time management, openness to feedback.

2020 - Internships, Chamber of Commerce and Industry

- Deployment and hardening of student workstations (Windows/Office, network, GPO).
- Commissioning of a conference room (A/V setup, cabling, network configuration, user guide).
- **Skills**: autonomy, coordination, communication.

EDUCATION

2025/2028 - Engineering degree in Digital Science in a work-study program within Thales Alenia Space - **INP ENSEEIHT**

2023/2025 - Bachelor's degree in Computer Science, Cryptography major, Top of the class - **UFR MIM Metz**

2022 - Baccalaureate in Mathematics, Physics, and Computer Science with honors - **Lycée De La Salle Metz**

PROJECTS

AES implementation with ECB, CBC, and CMAC modes
- Language: C
- AES specification: FIPS 197

Distributed application (C++ Client / Java Server) for managing 2D geometric shapes
- Languages: C++, JAVA

Dijkstra's algorithm, mobile development of the PACMAN game, ...

GitHub
PignatoneH

LinkedIn
Hugo Pignatone

E-Portfolio
hugo.pignatone.fr