VINCENT TRÉLAT

Engineering Computer Science student specialized in Formal Methods
and their Applications interested in a six-month internship

PROGRAMMING LANGUAGES

Python, C, LaTeX

Isabelle(HOL), Ocaml, Git

Java, Java/TypeScript

B (Atelier B)

HTML, CSS, React

Go, Assembly

LANGUAGES

French — Native

English — IELTS C1

German — Goethe Zertifikat B2

CONTACT

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- vincent-trelat

EDUCATION

Technical University of Munich, CIT Department   `2022 - 2023`
Garching, Munich, Germany

- Exchange during Winter Semester, Formal Methods: *Automata and Formal Languages*, Prof. Javier Esparza, *Semantics* and *Lambda Calculus*, Prof. Dr. Tobias Nipkow, *Advanced Computer Architecture*, Prof. Dr. Hans Michael Gerndt, *Recent Advances in Model Checking*, Maximilian Weininger, Stefanie Mohr

École Nationale Supérieure des Mines de Nancy   `2020 - 2023`
Engineering student, Nancy, Grand-Est, France

- **Computer Science Department**: Foundation of Computing, Programming Languages, Secure Coding, Software Engineering, Cyber-awareness, Data Analysis, Deep Learning. Specialization in **theoretical computer science** and **formal methods**.
- Award of a grant for academic excellence by the Grand-Est region.

CPGE in Science   `2018 - 2020`
Lycée Pothier, Orléans, France

- A two-year intensive undergraduate program in maths, theoretical physics and computer science prior to the most prestigious french colleges and universities.

Highschool, Scientific stream   `2015 - 2018`
Lycée Charles Péguy, Orléans, France

- Scientific Baccalaureate with European distinction in English with highest honours and congratulations from the jury.

PROFESSIONAL EXPERIENCE

Clearsy, Aix-en-Provence, France   `05/2022 - 09/2022`
Formal Methods R&D Engineer Internship

Formal justification of the safety of the real-time execution aspects of the Clearsy Safety Platform (CSP) with the B Method and Isabelle(HOL).

Loria, Nancy, France   `09/2021 - 08/2022`
Research Internship in Formal Methods

"Formal verification in Isabelle(HOL) of an algorithm computing the strongly connected components of a graph", **publication** in the **Archive of Formal Proofs**.

Valve Précision, Saint-Michel-sur-Orge, France   `06/2021 - 07/2021`
Factory Operator Internship

Private teacher   `Casual`

Math, physics, computer science between 9th grade and Bachelor

PROFILE

- Photographer, excellent knowledge of Photoshop, Lightroom, Final Cut Pro
- Former trumpet player and self-taught guitarist.
- **Advent of Code 2021**: Best rank: 261 / 237,000 (approx.)
- **Advent of Code 2022**: Best rank: 186 / 180,000 (approx.)