Dorian Lesbre

📍 4 rue Pierre et Marie Curie, 91400 Orsay   📞 +33 6 022 738 03

🌐 www.normalesup.org/~dlesbre/   ⬡ dlesbre

✉ dorian.lesbre@cea.fr   in dorian-lesbre-78a002122

Born on March 17th, 1998 — Paris, France
Nationality: French
Current job: PhD student in computer science at CEA List

Internships and professional experience

2023-	PhD student at BINSEC, CEA, Paris-Saclay (abstract interpretation based on SSA)
2022-2023	6 month research internship at LogSem, AU, Aarhus, Denmark (contextual refinement for capability machines)
2022	6 month research internship at BINSEC, CEA, Paris-Saclay (OS verification by abstract interpretation)
2021	6 month research internship at Octopi, Chalmers University, Sweden (hardware design)
2020	6 month research internship at Prove & Run, Paris (secure bootloader and chain of trust)
2019	2 month research internship at LIRMM, Montpellier (ÉCO team, linear system modular resolution)
2018-2019	Oral math interrogator in preparatory school.

Education

2018-2023	Paris – École Normale Supérieure – double bachelor in math and computer science. Started a MPRI masters.
2016-2018	Versailles – Sainte Geneviève – preparatory school in math MPSI – MP*
2014-2016	Toulouse – Lycée Le Caousou - scientific high school cursus.

Skills

French	Native speaker.
English	Fluent (passed Cambridge's Proficiency), lived 3 years in London.
German	B1 level, 2 linguistic exchanges in Germany in Iena (2011) and in Mannheim (2014).
Computers	Skills:

Advanced	C, C++, Python, OCaml, GNU Make, Linux, Django, Coq, Voss II
Good	LaTeX, beamer, HTML, CSS, LibreOffice, Windows, Git, Bash, SQL, Inkscape, Verilog, Docker, CMake
Basic	Rust, JavaScript, x86 assembly, Blender, Adobe Premiere and After Effects

Multiple large projects:

- Kotlin to x86 assembly compiler written in OCaml (github)
- Design and simulation of a simple processor in OCaml
- OS basic functions (keyboard/screen/ATA hard drive drivers, scheduler) in C and assembly
- Robot control program on Arduino and RaspberryPi written in C++ for France's Robotic Cup (gitlab)
- Secure bootloader and cryptographic algorithms (AES, ECC, SHA) in C
- Website for student events in Django ((interludes, photo server))
- ALU for arbitrary-precision arithmetic in Voss II (github)

Events	Chief organizer for a 180-person school ski week in 2017. Organizer of the ENS' gala in 2019 for 1000 participants.

Interests and hobbies

Research	program verification: formal methods, type systems, compilers, functional programming, static analysis...
Sport	jogging, sailing, rock climbing, hiking and skiing.
Music	plays the saxophone for 7+ years, currently in the school's band.
Tourism	Europe, USA, Egypt, Jordan and Malaysia.

Last updated: October 15, 2023