




ZERBIB Timothée


computer science student

 (+33) 646 544 844

 tzerbib.github.io

 timothee.zerbib@ip-paris.fr

 tzerbib

 tzerbib

Skills

Languages

French (Mothers tongue)

English (Fluent)

German (Fair)

Programming

Beginner

Expert

C • C++ • MIPS

Rust • RISC-V /x86 as. • Python

Java • JS • OCaml • PHP

Prolog

Tools

Programming

Git

GNU Debugger (GDB)

GNU Make

Text

LaTeX

Markdown

Vim

Game engines

Godot

Unity

Video

Adobe After Effects

Adobe Premiere Pro

Autodesk Maya

Blender

Education

2021 - 2023 **Master in Computer Science** Institut Polytechnique de Paris, France
“Master in Parallel and Distributed Systems”, including a research project with the *Parallel and Distributed team of Telecom SudParis*.

2016 - 2020 **Bachelor in Computer Sc. & Engineering** University of Strasbourg, France
Academic excellence curriculum (CMI) with additional courses in Operating Systems and Networks.

2014 - 2015 **Preparatory Classes for the Grandes Ecoles** Kleber High School, France
First year of Preparatory Classes for the Grandes Ecoles in Mathematics, Physics and Engineering Sciences.

Work Experience

May - Dec. 2023 **Design and implementation of a STM protocol** SkyLab, UC Berkeley, USA
Design and implementation of a leaderless ordering service in the byzantine model, respecting a newly defined notion of ordering fairness.

May - Aug. 2022 **Implementation of a multikernel** PDS team, Telecom SudParis, France
Continuation of my Master’s research project consisting in transforming the xv6 kernel into a multikernel.
<https://github.com/tzerbib/xv6-riscv/tree/multikernel>

June 2021 **Improvement of SGX performance** Neuchâtel University, Switzerland
Work on improving performance of Intel SGX “switchless” calls.

June - Aug. 2020 **Implementation of an emulator** University of Strasbourg, France
Implementation of a simplified computer emulator to serve as a support for students attending a graduate class about operating systems at the University of Strasbourg.
<https://gitlab.com/pdagog/z33>

June - July 2019 **Translation of the explanation booklet of xv6** ICube Laboratory, France
Study of the source code of xv6, a kernel created by MIT for pedagogic purposes, in order to do a translation of its explanation booklet. Commentaries were added to the French version to clarify some concepts, and improvements were sent to MIT.
<https://gitlab.com/pdagog/xv6-livret>

July - Aug. 2015 **Camp counselor** Community center of Elsau, France
Activity organizer in a summer camp for underprivileged children.

Publications

2023 **SGX Switchless Calls Made Configless** 53rd IEEE/IFIP DSN
P. Yuhala, M. Paper, T. Zerbib, P. Felber, V. Schiavoni, A. Tchana.

Activities and Interests

- Pianist in a jazz band after 15 years in music school.
- Singer in the vocal ensemble of École Polytechnique.
- Graduated artificer, member of ArtifiX, École Polytechnique’s students fireworks association.
- Judo (twice honored by the City of Schiltigheim as a “deserving athlete” in 2007 and 2009).
- Math tutor for students preparing the high school diploma.