

MASSIMINO Pascal, PhD

Compression - Image & Media processing - Hardware interaction - Large-Scale Engineering
v6



C++, assembly (NEON, x86), GLSL, and anything around to make these work and shipped at scale.

Deep hands-on 'get things done' engineering, along with a researcher mindset. Hardware and software.

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EXPERIENCE

Helsing — Software Engineer

2025 - present: Working at low-level (mostly software / hardware) on:

- [Centauro](#) : Fighter aircraft simulator (for RL)
- [HX-2](#) strike drone
- Other UAV and special sensor projects...

Google — Principal Engineer

2006 - 2025:

- [Streetview](#): imagery, backend, serving, [jpeg compression](#) (used everywhere at Google)
- YouTube: back-end, video compression, thumbnails, processing pipeline, Video for VR
- [WebP](#): [initiator](#) of the format, wrote most of the initial [code](#), worked with the ecosystem on [adoption](#) and [user support](#).
 - Public talks to influencers: [2020 WebP Rewind](#), [2021 WebP Recap](#), how [compression works](#)...
 - [WebP2](#): Next-gen format my team and I experimented with.
 - [Researched](#) compressing [images in ~200 bytes](#)
- [AOMedia](#): developing [AV1/AVIF](#) video codec with industry partners.
 - Public advocate and speakers: [#1](#) in french, [#2](#), [#3](#), [slides](#), ...
- Manager of small dedicated team
- [21 US patents](#)

XviD Solutions GmbH — Co-Founder

2000- 2007, Video Codec Consulting & Development

Co-Founded [Xvid Solutions](#) to leverage the open-source development of the [Xvid](#) code (in [Ffmpeg](#) notably). Wrote MPEG2, H263, H264 codecs for various DSP platforms in all sorts of low-level languages. Shipped in volume to numerous set-top boxes and home devices.

Ilog, Paris — Senior Engineer

2000-2005, Operation Research and Constraint Propagation technology. Worked on the flagship [Scheduler](#) product until the acquisition by IBM.

EDUCATION and RESEARCH

PhD, 1999 — Theoretical Physics

- Elastic Ising Models : [Modèle d'Ising compressible](#) (in french)
- [Effect of magnetoelastic interactions on the phase transition of two-dimensional Ising spin system](#)

Alma mater: Ecole Normale Supérieure de Paris (1991)

SIDE INTERESTS

- FinTech: business angel and investor
- Entrepreneur / consulting: metaskal.com
- Marathon & Trail runner - Rock Climbing - Muay Thai - Music & Rock band