

MASSIMINO Pascal

Compression - Image & Media processing - Large-Scale Engineering v4



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.
pascal.massimino@gmail.com cell: +33 6 51 92 05 90 - Paris Area - <https://skal65535.github.io>

EXPERIENCE

Google — Principal Engineer

2006 - PRESENT:

- **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](#)
 - [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 - Promo B91)

SIDE INTERESTS

- FinTech: business angel and investor, notably for [Kard](#)
- Entrepreneur / consulting: metaskal.com
- Marathon & Trail runner - Rock Climbing - Muay Thai - Music & Rock band