

## Benjamin GOLINVAUX

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### PERSONAL INFORMATION

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Birth date	October 2 <sup>nd</sup> , 1973
Citizenship	Belgian

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### EDUCATION

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<b>University of Liège</b>	Liège, Belgium
M. Sc. in Engineering – Electronics (EE Engineer)	June 1996

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### OBJECTIVE

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Apply my software engineering skills to design and implement services, components, and interfaces, with an emphasis on image and media processing, real-time performance, maintainability, reliability, and short release cycles through continuous delivery.

I am available, as a freelancer, for development tasks and consulting on software architecture and methodology, in accordance with my objective.

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### EXPERIENCE

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<b>Omniscient Neurotechnology</b>	Sydney, Australia
<i>Full stack Engineer</i>	<i>May 2021 – present</i>

- I lead the development of a multi-service backend application that handles networked DICOM communication with hospital devices such as scanners, MRI machines and PACS systems, performs anonymization and metadata processing and communicates with other services on a Kubernetes-based cluster (on AWS) that perform image processing and machine learning tasks. ([www.o8t.com](http://www.o8t.com))

**Stack:** Python, Orthanc, JavaScript, TypeScript, Docker + compose, bash, Flask, RabbitMQ, DataDog.

<b>Wild Bishop</b>	Liège, Belgium
<i>Full stack Engineer</i>	<i>August 2020 – present</i>

- I am using my C++, real-time systems, and networking skills to help the team write a multiplayer video game (for Windows) based on Unreal Engine. As the team senior software engineer, my mission is to both help design the architecture, write C++ code, work on backend TypeScript services and Python or PowerShell scripts, as well as mentor younger developers on technology and good practices. ([www.wildbishop.com](http://www.wildbishop.com))

**Stack:** C++, Unreal Engine, Python, TypeScript, Azure, PlayFab, AWS, Steam.

## Osimis

Senior Software Engineer

Liège, Belgium

Jan. 2019 – Apr. 2021

- Osimis provides services and builds products around Orthanc, an open-source (AGPL) Dicom vendor neutral archive used by thousands of doctors and medical imaging technicians worldwide. I worked on backend services and on Dicom visualization desktop and web-based applications. ([orthanc-server.com](http://orthanc-server.com), [osimis.io](http://osimis.io))

**Stack:** TypeScript, nginx, Qt, WebGL, C++, Web Assembly (Wasm), Docker + compose, bash, CMake, InnoSetup

## Jomago

Co-Founder - Software Engineer

Liège, Belgium

Apr. 2010 – Nov. 2013

- Jomago designed and sold a cutting-edge cross-platform video stabilizing SDK for software integrators.

**Stack:** Adobe Plugin SDK, C++, Python, CMake

## PSIO

Software Engineer (freelance)

Lasne, Belgium

Jul. 2011– May. 2021

- I developed, from A to Z, a graphical desktop application that allows creating audio-visual sequences to drive the PSIO light stimulation glasses, giving the designer the ability to graphically control the evolution of every parameter of a stimulation sequence over time. ([www.pσιο.com](http://www.pσιο.com))

**Stack:** .NET, Windows Forms, C#, C++, Juce, InnoSetup

## EVS Broadcast Equipment

Software Project Manager

Ougrée, Belgium

Mar. 2011– Dec. 2018

- By introducing agile development and best practices in the software development team and taking advantage of modern methodologies, technologies and tools, I am improving the software development workflow and the product quality. ([www.evs.com](http://www.evs.com))

**Stack:** C++, C#, InnoSetup, video encoders/decoders, TeamCity, SVN, GIT, Docker, Python, PowerShell.

## Euresys SA

Vision Software Manager

Angleur, Belgium

May 2003– Mar. 2011

- Along with the team, I designed, implemented and maintained an extensive image analysis and processing library. ([www.euresys.com](http://www.euresys.com) → [products](#) → [software tools](#))
- I led those developments and successfully introduced good software engineering practices: reusability and sound object-oriented design, source control, automated builds and extensive testing (unit testing and integration testing).

**Stack:** C++, C#, TeamCity, Perforce, CVS, Visual Basic, ActiveX, image processing.

## Arboretum, Inc.

Montage Team Leader

Pacifica, CA, USA

Dec 1999 – Mar 2003

- I led, from early design to release, the development of HyperEngine AV, a multimedia authoring and editing application for Mac OS X. ([sourceforge.net/projects/hyperengine](http://sourceforge.net/projects/hyperengine))

**Stack:** Objective C, Cocoa, CVS, C++, Audio DSP, GCC, GDB.

## **EVS Broadcast Equipment**

*Free-lance developer*

Ougrée, Belgium

*Apr 2001 – Jun 2001*

- I implemented Browser On Witness (BOW), a multimedia HTTP web server, in C++. ([www.evs.com](http://www.evs.com))

**Stack:** Custom HTTP server, MFC, C++, SQL Server.

## **Deltatec SA / Art & Magic SA**

*C++ Software Developer*

Ans, Belgium

*July 1996 – Mar 2000*

- I took part in the development, design and maintenance of a 2D and 3D graphics library (DirectX).
- I designed and implemented real-time rendering algorithms for a professional flight simulator.
- I implemented an optimized bitmap rasterization algorithm for a giant screen controller.

([www.deltatec.be](http://www.deltatec.be))

**Stack:** Embedded C/C++, x86 vectorized assembly, MFC, DirectX.

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## **SKILLS**

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### **DOMAINS**

Real-time systems, image and video processing, broadcast systems, industrial machine vision, audio and signal processing, medical imaging, DICOM, containerized services and service-oriented architectures, multiplayer and networked video game development.

### **LANGUAGES**

Lots of experience in C/C++, Python and C# and some experience in Objective-C (macOS/iOS), TypeScript and JavaScript.

### **FRAMEWORKS AND TOOLS**

.NET, Unreal Engine, WebAssembly (Wasm), Docker, nginx, bash, git, Perforce, SVN, CMake, TypeScript/JavaScript, PowerShell, Cocoa (macOS), InnoSetup, JUCE, TeamCity, GitLab, etc.

### **METHODOLOGIES**

I have worked with various flavors of both Scrum and Kanban and have helped transition teams from monolithic release phasing to agile delivery with automated, validated, and frequent releases.

### **OTHER SKILLS AND INTERESTS**

Photography (skilled at Photoshop, Lightroom) and digital drawing and painting (Photoshop, Procreate).