

# Curriculum Vitae

Name **Dr.ir. Alexander Helleboogh**

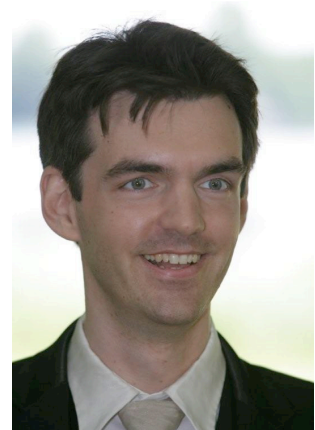
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Time of birth **January 21st, 1978**



## Profile:

- Excellent communication & people management skills
- In-depth knowledge of the latest architectural principles, practices and technology
- Certified SEI Software Architecture Professional & ATAM Architecture Evaluator
- Experience in different domains (automation, logistics, e-health, traffic, finance)
- Broad technical background and design expertise

I have a passion for architecting software-intensive systems, which requires a combination of communication skills, commercial feeling, design expertise and broad technical background. As an architect, I also strive to transfer knowledge that improves the architectural practice of people and organizations I work with.

## Professional achievements:

12/2010-Present: **Co-founder & CEO** of [archiwise.com](http://archiwise.com)

- Together with Nelis Boucké, I've been involved in many industry projects and research activities on software architecture. We share a passion for architecting software systems and for practices that improve software quality. We founded **archiwise**, a specialized spin-off company that provides customers with architectural services and consulting.

06/2007-Present: **Senior Researcher** at [DistriNet labs](http://DistriNet.labs), Dept. of Computer Science, K.U.Leuven

### • Industry collaborations

- E'SPLS project (2009-present), in collaboration with **Egemin**
  - My role:
    - technical lead of the project
    - analyze main architectural challenges w.r.t. software quality and evolution
    - design a tool to automatically reconstruct and verify the architecture of legacy systems and to support software updates
    - reduced the time needed for updates with 35%, improved correctness of updates from 72% to more than 99%
  - Technical context: .NET, XML, Java

- DiCoMAS project (2008-present), in collaboration with **Ordina, Tinc, Televic, UZ, Saga, Eurad**
  - My role:
    - design an architecture for automated collaboration between business processes in a supply chain context
    - coach a team of 5 people to build a prototype that supports a 4th party logistics provider
  - Technical context: Java, Web Services
- Flexsys project (2007-2008), in collaboration with **Vialis, Traficon, T&M, Tritel, Vlaams Verkeerscentrum, Touring**
  - My role:
    - design an architecture for flexible traffic management systems that integrates the systems of multiple vendors
  - Technical context: DATEX2, XML

10/2001-05/2007: **PhD Researcher at DistriNet labs**, Dept. of Computer Science, K.U.Leuven

- Industry collaborations
  - e-HIP project (2005-2008), in collaboration with **Agfa, Cronos, UZ Leuven, Medibridge**
    - My role
      - analyze the availability and performance of a next-generation e-health platform
      - propose architectural techniques to improve these qualities
    - Technical context: J2EE
  - EMC2 project (2004-2006), in collaboration with **Egemin**
    - My role
      - design a simulation environment to test distributed control systems for warehouse automation
    - Technical Context: Java, AspectJ

## Education & Certification:

- 2010: **Certified ATAM (Architecture Tradeoff Analysis Method) Evaluator**  
[Software Engineering Institute \(SEI\)](#), Carnegie Mellon University, USA
- 2008: **Certified SEI Software Architecture Professional**  
[Software Engineering Institute \(SEI\)](#), Carnegie Mellon University, USA
- 2001-2007: **Ph.D., Applied Sciences and Engineering: Computer Science**  
[K.U.Leuven](#), Belgium  
Subject: "Simulation of distributed control applications in dynamic environments"
- 2003-2005: **Bachelor, Philosophy**  
[K.U.Leuven](#), Belgium  
Graduated Cum Laude
- 1996-2001: **Master, Applied Sciences and Engineering: Computer Science**  
[K.U.Leuven](#), Belgium  
Graduated Magna Cum Laude  
Subject: "A configurable electronic stock market agent: framework and prototype"  
Laureate of the 2001 [Jos Schepens Memorial Fund](#) Award

## Community Activities:

As I am passionate about architecture, I invest time and effort in the architecture community:

- Organizer and lecturer of events on architecture
  - International Workshop on Variability in Software Product Line Architectures ([VARI-ARCH](#)) at ECSA 2010, Copenhagen.
  - [Industry course](#) about the ISO 42010 standard on architecture descriptions (2009), Leuven.
- Attending key architecture conferences, including the last editions of:
  - [Software Architect](#) 2010, London
  - [ECSA](#) 2010, Copenhagen
  - [WICSA](#) 2009, Cambridge
- I have written several [articles](#) about software architecture in scientific venues

## Knowledge of languages:

Dutch	*****	native language
English	*****	fluent, daily use since 2003
French	**	basic

## Knowledge of ICT Technology:

During my career I have used a wide range of ICT technologies, including:

- **Software & Enterprise Architecture:**
  - ATAM Architecture Evaluations, Adaptive Architectures, Product-Line Architectures, Service Oriented Architectures, EAI, Architecture Viewpoints, ISO 42010 Architecture Descriptions, Quality Attributes, basic TOGAF
- **Design:**
  - UML, OO Design & Design Patterns, Component-Based Design, Use Cases, ERD
- **Development Processes:**
  - UP, Agile, basic Scrum, TDD
- **Programming Languages & Technologies:**
  - Java (J2SE), AspectJ, basic J2EE, JDBC, EMF, .Net including C# and Visual Basic, basic C++, basic Haskell, HTML, XML, SQL
- **Operating systems:**
  - Windows, Linux, Mac OS X

Given my experience in and connections with the research community, I stay in touch with new trends which allows me to quickly pick-up and/or evaluate new technologies.