

Lorenz Cuno Klopfenstein — Curriculum Vitæ

CONTACT INFORMATION Vicolo dell'Osteria 3
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Born on November 12th, 1984 in Berne (Switzerland). Swiss citizenship.

EDUCATION **Università degli Studi di Venezia “Ca’ Foscari”**

Master’s degree in Computer Science **2011**

Thesis: “openBOXware: open platform for multimedia streaming applications”.

Final grade: 110/110.

Università degli Studi di Urbino “Carlo Bo”

Bachelor’s degree in Applied Computer Science **2006**

Thesis: “Energetically sustainable Routing Algorithms for WSNs”.

Final grade: 110/110 *cum laude*, awarded as “Best CS graduate 2005/2006”.

Liceo Linguistico “F. Frezzi”, Foligno (PG)

High school linguistic diploma **2003**

Final grade: 96/100.

PUBLICATIONS Klopfenstein, E. Lattanzi, A. Bogliolo, “Implementing Energetically Sustainable Routing Algorithms for Autonomous WSNs”, *wowmom*, pp.1-6, 2007 **IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks**, 2007.

Klopfenstein, P. Russo, A. Manini, A. Bogliolo, E. Lattanzi, “Applicazione di algoritmi genetici a contesti videoludici”, *Workshop Italiano di Vita Artificiale e Computazione Evolutiva (WIVACE2007)*, Sampieri (Italy).

A. Seraghiti, Klopfenstein, S. Bonino, A. Tarasconi, A. Bogliolo, “Multicast TV Channels over Wireless Neutral Access Networks”, *internet*, pp.153-158, 2010 **2nd International Conference on Evolving Internet (ACCESS2010)**, 2010. Best paper award. Accepted for publication on *International Journal On Advances in Telecommunications*.

Klopfenstein, S. Delpriori, M. Valentini, A. Seraghiti, A. Bogliolo, “Protected Delivery of Multimedia Contents over Multicast IP Networks: an Open-Source Approach”, presented as demo at the 2011 **IEEE International Symposium on a World of Wireless, Mobile and Multimedia Networks**, 2011.

Klopfenstein, S. Delpriori, G. Luchetti, E. Lattanzi, A. Bogliolo, “Making an Android Tablet Work as a Set-Top Box”, accepted for presentation at the **Third International Conference on Advances in Future Internet (AFIN2011)**.

PROFESSIONAL
EXPERIENCE

Università degli Studi di Urbino “Carlo Bo”

Research on genetic and routing algorithms **Apr 2007 – Dec 2007**

Continuation of thesis work, research on energetically sustainable routing algorithms for wireless sensor networks. Implementation of network protocols on simulated environments.

Design and development of applications, especially video games, based on genetic algorithms.

Software developer **Jan 2008 – Oct 2008**

Development of a multiplatform application to support handling and statistical analysis (plotting and model fitting) of very large datasets, relying on the *R toolkit* (based on C++ and wxWidgets).

Software architect **Aug 2009 – Jul 2011**

Design and implementation of an open-source platform for multimedia streaming applications, **openBOXware**. The platform both acts as a multimedia streaming source and as a set-top-box capable of receiving and displaying contents to the user. Implementation in C++ and C# on Mono/.NET. Multimedia streaming relies on GStreamer.

Clean room C++ implementation of the Adobe RTMP protocol for multimedia streaming as a GStreamer element.

Porting of the **openBOXware** base concept as a launcher/service ecosystem on Android.

Multiplayer.it, Terni

Translator and proofreader **2006 – 2007**

Translation of the “Gothic 3” strategy guide from german to italian. Proofreading of several translation of other guides from english to italian.

OPEN-SOURCE
PROJECTS

“Babil” Content Management System **Since 2009**

Management and solo development of a multi-language, multi-user CMS based on ASP.NET MVC and NHibernate. In development, currently used for a small number of websites. <http://bitbucket.org/lck/babil>

OnTopReplica **Since 2007**

Development of an application that improves window management on Microsoft Windows Vista/7 by providing a cloned view of any other window. Popular and available on several download portals. <http://ontopreplica.codeplex.com>

WindowsFormsAero **Since 2007**

Contributions to a .NET library that extends **Windows.Forms** in order to make use of the more advanced GUI features of Windows Vista and 7 (new common controls, DWM and glass effects). <http://windowsformsaero.codeplex.com>

SPOKEN
LANGUAGES

Native: Italian, Swiss German (bernese) and German.
Fluent: English.
Fair: French.

SKILLS

Strong interest in software architecture, object-oriented and aspect-oriented programming. Experienced with several programming languages, in particular C/C++ (7 years), C# (5 years) and Java. Basic knowledge of Cobra, Python, Erlang and F#.

Web programming experience, both on the client side (HTML, CSS and Javascript, with focus on mobile accessibility and standard compliance) and the server side (Apache/PHP and ISS/ASP.NET). Some experience with web service development, based on the *RESTful* paradigm and JSON data serialization.

Experience and skill with database management systems (MySQL, Microsoft SQL Server, SQLite) and data access via SQL or O/R mapper (NHibernate, Linq-to-SQL).

Interested in mobile application development. Experience with C#, Silverlight and XNA on .NET for the Windows Phone platform; Java on Android.

Collaboration on several open-source projects and work experience in small teams. Well versed with different source control technologies. Skilled technical writer, wrote documentation and took care of support for the **openBOXware** project and a number of open-source projects.

INTERESTS

Traveling. Photography (Canon enthusiast). Reading technical and narrative books. Sports, especially jogging, skiing, snowboarding, mountain biking, swimming and hiking. Playing table tennis. Tabletop and card games. Cooking, as documented by the self-ironic CookingByDummies.com blog (in italian).