

Claudio Marforio

Curriculum Vitae

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Education

- 2010–present **PhD**, *ETH*, Zürich.
Working in the System Security Group at ETH
- 2008–2010 **MSc**, *ETH*, Zürich, *GPA: 5.63/6*.
Computer Science MSc - Information Security Focus, relevant exams: System Security (5.5), Network Security (5.5), Security of Wireless Networks (5), Security Engineering (5.75), Security and Fault-tolerance of distributed systems (5.5), Current Topics in Information Security (5.75), Advanced Operating Systems (5.5), Applied Security Laboratory(5.5), E-Privacy (6)
- 2005–2008 **Bachelor**, *USI*, Lugano, *Magna cum Laude*.
Bachelor in Computer Science
- 2000–2005 **High-school Diploma**, *Liceo classico A. Volta*, Como.
Diploma of classical studies

Master thesis - ETH Zürich

- title *Timed Data Deletion on Mobile Communication Devices*
- supervisors Prof. Dr. Srdjan Čapkun, Christina Pöpper
- description Investigation of secure communication of data and its proper deletion on current communication devices, with particular focus on the Android SDK and devices to implement the suggested protocol

Bachelor thesis

- title *Simulation of a variant of DV/DRP in a clustered content-based network*
- supervisors Prof. Dr. Antonio Carzaniga, Dr. Giovanni Toffetti Carughi
- description Engineering, implementation, simulation and analysis of a protocol for content-based networks with the *Omnet++* framework

Personal Information

- Date of Birth 10.03.1986
- Marital Status Single
- Nationality Italian
- Swiss Permit Type B
- Driving Licence Cars and Motorcycles (up to 125cc)

Experience

Vocational

- spring 2010 **my2cents**, *Claudio Marforio & Mike Godenzi*.
iPhone twitter-integrate application for commenting barcode-scanned products over twitter developed for the Information Management group at ETH, Zürich in collaboration with Mirasense. Currently available on the AppStore.
Programming-language: Objective-C, roughly 6000 LOC
- summer 2009 **SwissPeaks and WorldPeaks**, *Claudio Marforio & Mike Godenzi*.
iPhone AR application for identifying mountains developed for the Information Management group at ETH, Zürich in collaboration with EBP. Currently available on the AppStore. The application is ranked amongst the tops on the Swiss Appstore in the Travel section. [?]
Programming-language: Objective-C, roughly 4000 LOC
- 2009–present **Cscope for TextMate**, *Claudio Marforio*.
Creator and maintainer of the *Cscope for TextMate* bundle, to use cscope functionalities from within TextMate.
Programming-language: Python, roughly 130 LOC, open-sourced
- 2009–present **ImageMagick iPhone static library**, *Claudio Marforio*.
First creator and Maintainer of a cross-compiling script working on the latest Apple's MacOSX to produce an ImageMagick static library with JPG/PNG/TIFF compatibility for both the iPhone and the Simulator SDK. I'm also the maintainer of the iPhone build released directly on the ImageMagick ftp.
Programming-language: Bash, roughly 440 LOC, open-sourced
- 2009 **Who Am I?**, *Claudio Marforio, Mike Godenzi & João Moreno*.
Simple network-enable iPhone application to show ImageMagick capabilities through fun photo interaction. Currently available on the AppStore
Programming-language: Objective-C, Python, roughly 1500 LOC
- 2009–present **μMonitor**, *Claudio Marforio & Mike Godenzi*.
μMonitor is an iPhone application that lets you remotely manage your μTorrent application running on a server. The application displays the status of every torrent and allows you stop/start/delete any one of them. After submission at Apple AppStore the application has been rejected for legal issues. Installation through the cydia repositories allowed and application downloaded more than 40000 times
Programming-language: Objective-C, roughly 3000 LOC, open-sourced
- summer 2007 **Research Project: Ad-hoc On-demand protocol for content-based networks**, *USI - Prof. Dr. Antonio Carzaniga*, Lugano.
Idealization, implementation and simulation of an ad-hoc on-demand protocol for content-based networks based on the *Omnnet++* framework.
Programming-language: C++, roughly 10000 LOC
- summer 2006 **Research Project: Eclipse Predictor**, *USI - Prof. Dr. Matthias Hauswirth*, Lugano.
Eclipse plug-in to register user interactions and predict future actions for performance improvements.
The project later on won the title as *Best Innovative IT product of 2007 in Ticino*, issued by ATED - Ticino, and 4000.- chf prize.
Programming-language: Java

2008–2010 **University Projects, ETH, Zürich.**
Individual and group projects, in particular:
Advanced Operating Systems: basic OS implementation (memory management, file I/O, permissions, process management, ELF loader, clock driver) starting from a microkernel (L4) - C and Assembly heavily read and written.
Applied Security Laboratory: implementation of a (secure) multi-tier infrastructure to provide a CA for a small company. In particular usage of PHP/MySQL, Linux hardening and extensive logging.

2005–2008 **University Projects, USI, Lugano.**
I've been working on smaller individual and group projects throughout my bachelor experience, in particular I've been exposed to different tools/frameworks/programming languages. Examples are: game programming in Scheme, distributed Java applications using JavaSpaces/RMI, web development with RubyOnRails/XHTML/CSS/JavaScript, AI algorithms development for problem solving.
Group management skills, open-source like experience and project process planning skills acquired during the different projects.

Notes LOC are counted without comments and blank lines. Where the project is listed as "open-sourced" it means that the source is publicly available online

Non-vocational experiences

Other hobbies and activities I've been carrying out during my studies include: piano playing, tennis, squash and soccer playing, cultural and recreational travel and cooking.

Languages

Italian	Mother tongue
English	Outstanding
French	Basic
Spanish	Basic
German	Basic

TOEFL *examination*

Programming Languages

Very good	C, Java, Objective-C, PHP
Good	Ruby, SQL, C++, Scheme, Javascript
Basic	Python, Smalltalk

Other

Markup	XHTML, CSS, \LaTeX
Revisioning	SVN, GIT

Publications

Stephan Karpischek, Claudio Marforio, Mike Godenzi, Florian Michahelles, and Stephan Heuel. Swisspeaks - mobile augmented reality to identify mountains. ETH Zürich, Aml2009, 2009.