Personal information

Name / Surname	**Pignotti Alessandro**
Telephone	
Personal Email	
Nationality	
Date of birth	

Professional Experience

Date (from-to)	**September 2012 - Now**
Activity	Founder and CTO at Leaning Technologies Limited
Date (from-to)	**February 2012 - September 2014**
Activity	Independent engineering consultant
Details	Custom development and debugging on full-stack client/server applications. Custom solutions based on Android, Wine.
Date (from-to)	**October 2011 - January 2012**
Activity	Software Engineering intern at Adobe corporation
Date (from-to)	**October 2006 - July 2011**
Activity	System Administrator of the intranet and internet facilities on behalf of the students of the Sant'Anna School of Advanced Studies

Education and Training

Date (from-to)	**December 2009 - May 2012**
Title of qualification awarded	Master's degree in Computer Engineering (110/110 cum laude)
Name and type of organization	UNIVERSITY OF PISA [www.unipi.it]
Thesis	Adaptive Data Parallelism for Internet Clients on Heterogeneous Platforms
Date (from-to)	**October 2006 - October 2012**
Title of qualification awarded	Student of the Sant'Anna School of Advanced Studies. Holding a full scholarship won in a national competition (11 scholarships , 230 participants). The courses taken are complementary to the ones offered by the University of Pisa and deepen particular topics.
Name and type of organization	SANT'ANNA SCHOOL OF ADVANCED STUDIES [www.sssup.it]
Principal subjects	Mathematics (variational calculus, partial derivative differential equations, frequency domain calculus, linear and non-linear programming, statistics), Physics (statistical thermodynamics), Computer Science (parallel computing, physical modeling/simulation, algorithm complexity, neural networks), Genetics
Date (from-to)	**August 2009 - October 2009**
Activity	Intership with Prof. Giovanni Vigna and Christopher Kruegel at the Security Lab, University of California Santa Barbara

Projects

Date (from-to)	**October 2013 - Now**
Project	Design and implementation of Cheerp (previously known as Duetto): a C++ compiler for the Web [http://leaningtech.com/cheerp/]
Details	Cheerp is a software that compiles C++ applications to binary code and Javascript, allowing you to write high-performance, client-server distributed applications in a single C++ codebase.

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Date (from-to)	**November 2008 - December 2012**
Project	Design and implementation of an efficient, open source Flash Player [http://www.lightspark.org]
Date (from-to)	**August 2009 - October 2009**
Project	Design and implementation of an efficient Dynamic Binary Instrumentation Framework
Reason	Intership at the Security Lab, University of California Santa Barbara
Date (from-to)	**September 2008 - October 2008**
Project	Worked on the development, assembly, control and tele-operation of a six-legged robotic platform [http://pesapod.blogspot.com/]
Reason	Partecipation to the ESA Lunar Robotics Challenge

Publications

A. Pignotti, A. Welc, and B. Mathiske 'Adaptive Data Parallelism for Internet Clients on Heterogeneous Platforms' in Proceedings of the Dynamic Languages Symposium 2012, Tucson, Arizona, USA, October 2012

Professional skills

Technical skills

Advanced knowledge:
- Operating systems: Linux (Debian, Ubuntu, Gentoo, LFS), Windows Workstation and Server
- Programming: C, C++, C++11, JavaScript
- Machine Language: Assembler x86, x86_64, MMX/SSE extensions, MIPS
- Executable disassembling and analysis
- Virtual Machine Architectures, Just-In-Time compilation
- Libraries: Standard Template Library, LLVM, OpenGL
- Knowledge of the major end-user applications (e.g. Office Suite)

Good knowledge:
- Scripting: Bash
- Programming: Java, Python, C#, Ruby
- Documentation: Doxygen
- Simulation and numerical analysis: Matlab
- Services administration: Dns, Dhcp, Virtualizazion (Xen), Printing (Cups)
- Typesetting: $\LaTeX 2_\varepsilon$
- Database: Mysql, SQLite
- Web: Html, Css, Php
- Services administration: Www (Apache)

Basic knowledge:
- Operating systems: FreeBsd
- Services administration: Ldap, OpenVpn

Mother tongue **Italian**

Self-assessment
European level[*]

	Understanding			Speaking			Writing	
	Listening		Reading		Spoken interaction		Spoken production		
English	C1	Proficient user	C2	Proficient user	C1	Proficient user	C1	Proficient user	C1 Proficient user
Dutch	B1	Independent user	B2	Independent user	B1	Independent user	B1	Independent user	B1 Independent user
French	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1 Basic user
Spanish	A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1 Basic user

[*] *Common European Framework of Reference* (CEF) level

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