



Personal information

First name / Surname **Andrea Rota**
Mobile: +39 349 1591649
E-mail andrearota37354@gmail.com
Citizenship Italian
Data of birth 26 July 1983
Gender Male

Work experience

Dates October 2008 – April 2009
Company **SAP Research Labs Security and Trust (Sophia Antipolis, France)**
Position held Internship (Spontaneous candidature)
After my graduation, I decided to have an experience abroad: I worked for the SAP Research labs, in the EU project PrimeLife. The project aims to bring privacy and identity management to the Web and its applications and will provide tools and technologies to build privacy aware solutions. The project gathers major software companies (SAP, IBM and Microsoft) and high-profile universities (Milan, Dresden e Leuven).

Main activities

- Analysis, design and implementation of prototypes to show how XACML – an open access control language – could be used to solve privacy issues.
- Presentation of the experimental results to the SAP workgroup and to the partners of the projects PrimeLife and TAS3.
- Research on increasing the expressivity of XACML policies, which produced a patent submission and two scientific papers for international conferences (submission in progress).

Technologies XACML, XML, XSLT, XPath, Java, Web Services, Semantic Web Technologies (OWL, RDF, SPARQL)
Links <http://www.primelife.eu/>

Dates September 2007 – June 2008
Company **ST Microelectronics (Agrate Brianza, Milan, Italy)**
Position held Internship (Master degree)
During my experience in the research department of ST Microelectronics, I designed and implemented a proof-of-concept of a distributed storage system based on LDPC Digital Fountain encoding. The goal of that prototype was to study the usage of high performance encoding to create a new class of affordable storage solutions ensuring high availability of the data.

Main activities

- Design and implementation of the proof-of-concept prototype using Matlab/Java/Linux.
- Development of a Java framework to support LDPC Digital Fountain encoding and decoding.
- Development of a Java API to integrate the Linux Network Block Devices protocol in Java.

Technologies LDPC, NBD, XML-RPC, Matlab, Java
Links <http://andrea.l.vitali.googlepages.com/ldpcfountain/>

Dates	August 2005 – March 2006
Company	Design and Mass Customization Lab ITIA CNR (Vigevano, Pavia, Italy)
Position held	Internship (Bachelor degree)
Main activities	I took an internship in the CNR (National Research Council) automation labs, working on the logic control software of an experimental industrial plant that was able to create customized shoes starting from a digital map of the feet. - Reverse engineering of part of the existing software - Design and implementation of some routines on a PLC Siemens S7
Technologies	PLC Siemens S7

Education and training

Dates	March 2006 – July 2008
	Master Degree in Computer Engineering (University of Bergamo, Italy)
Marks	110/110 cum laude
Thesis topic	DropBox, CloudStorm e SiNBD – Distributed storage, LDPC Encoding and Virtual Devices
Supervisor(s)	Prof. Stefano Paraboschi – UNIBG / Prof. Andrea Vitali – ST Microelectronics
Principal subjects	<ul style="list-style-type: none"> - Fundamentals of formal languages and compiler design (ALASC, a small project I made during the compiler class, is available on http://code.google.com/p/alasc) - Principles of security engineering: encryption, PKI, authentication, access control and hashing - Operation research and optimization - Artificial intelligence - Model identification and data analysis - Geographic information system and information retrieval system - Fundamentals of economy and business strategy
Dates	September 2002 – March 2006
	Bachelor Degree in Computer Engineering (University of Bergamo, Italy)
Marks	110/110 cum laude
Thesis topic	Design and Implementation of the Logic Control of a Mechatronic System
Supervisor(s)	Ing. Andrea Cataldo – ITIA CNR
Principal subjects	<ul style="list-style-type: none"> - Software engineering (from requirements analysis to testing) - Programming (low-level, high level and Web oriented languages) - Databases design and manipulation - Electronics - Computer networks and telecommunications - Electrotechnics - Automation and system control
Dates	September 1997 – July 2002
	Technical Diploma in Computer Science (Itis P.Paleocapa, Bergamo, Italy)
Marks	100/100
Principal subjects	<ul style="list-style-type: none"> - Fundamentals of computer and microcomputer programming - Fundamentals of computer networks - Electronics and digital telecommunications.

Publications

Papers

- A. Rota, S. Short, M.R. Ashiqur. **XML Secure Views Using Semantic Access Control**. In: 1st International Workshop on Data Semantics (DataSem 2010), March 2010, Lausanne.
- S. Short, S. Trabelsi, M. Bezzi, A. Rota. **Towards an Architecture for a Privacy Policy Composition**. In: International Conference on Mobility, Individualisation, Socialisation and Connectivity (MISC 2010), January 2010, London.

Skills and competences

Known programming languages

Pascal, Basic, C, C++, Java, JSP, JavaScript, Assembler (Z80, Scenix, 8086, MIPS), PLC S7 Ladder.

Other known languages

HTML, CSS, SQL, XML, XACML, XPath, XSLT, RDF, OWL, SPARQL, Matlab.

Known design and documentation languages

UML, FMC, E/R diagrams.

Main known technologies

GIS (academic projects with ESRI software), Semantic Web, Web Services (JAX-WS and Axis2) and fundamentals of SOA.

Other technical skills

- Knowledge of LaTeX for the scientific article typesetting
- Mac OS X user
- Basic knowledge of Adobe Illustrator, Photoshop and Lightroom
- Basic knowledge of the Linux operating system

Mother tongue

Italian

Other languages

English, Spanish, French

Self-assessment

European level ()*

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user	C1	Proficient user
A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user	A2	Basic user
A2	Basic user	A2	Basic user	A1	Basic user	A1	Basic user	A1	Basic user

English

Spanish

French

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

Social skills and competences

- I really like to investigate new things: I do believe that curiosity is the key to innovate and to make every work day an new challenge.
- I like to live and to exchange experiences with other nationalities people. I really think that diversity can help a lot to see things from a different sight.
- I have good communication skills, especially in explaining scientific/technical facts. I think I earned this capability giving lessons on scientific subjects to college students.
- I like digital photography and everything is concerned with.

Driving license

Italian driving license category B

Additional information

- National finalist in the Italian team selection for UNESCO International Olympiad in Informatics 2001
- I will be finishing the professional test for the Italian engineering license in March 2010.

Signature

