

## Personal Information



First name      Alessandro  
Last name        Reina  
Mobile phone    +39 3473188769  
E-mail            alessandro.reina@gmail.com  
WWW             <http://security.dico.unimi.it/~ale/>  
Nationality      Italian  
Date of birth    21 December 1983  
Gender            Male

## Education and training

Date	<b>2011 - at present</b>
Title of qualification awarded	Ph.D. student in Computer Science Università degli Studi di Milano
Research field	Systems security
Date	<b>2006 - 2010</b>
Title of qualification awarded	Master of Science in Computer Science, Università degli Studi di Milano
Thesis title	<i>Design and building of an "on-line" instrument to measure air particulate by means of light scattering</i>
Grade	110/110 cum Laude
Date	<b>January to June 2007</b>
	Erasmus scholarship in Helsinki University of Technology TKK
Date	<b>2003 - 2006</b>
Title of qualification awarded	Bachelor of Science in Computer Science, Università degli Studi di Milano
Thesis title	<i>Development, implementation and simulation of a sensor network anchor free distributed localization algorithm</i>
Grade	110/110 cum Laude
Date	<b>2003</b>
Special Course	FSE - Advanced Linux System Administrator
Grade	A
Date	<b>1998 - 2003</b>
Title of qualification awarded	High School Diploma in Electronic and Telecommunication Systems, IIS Alessandrini, Abbiategrasso
Grade	100/100

## Teaching experiences

Date	<b>2011 - 2012</b> Teaching assistant for the course <i>Information Security</i> at the Università degli Studi di Milano.
Date	<b>2011 - 2012</b> Teaching assistant for the course <i>Network Security</i> at the Università degli Studi di Milano.
Date	<b>2010 - 2011</b> Teaching assistant for the course <i>Information Security</i> at the Università degli Studi di Milano.
Date	<b>2010 - 2011</b> Teaching assistant for the course <i>Algorithms and Data Structures</i> at the Università degli Studi di Milano.
Date	<b>2009 - 2010</b> Teaching assistant for the course <i>Laboratory of Computer Programming</i> at the Università degli Studi di Milano.
Date	<b>2009 - 2010</b> Member of the organizing committee of the Computer Science competition <i>Kangourou dell'informatica</i> .

## Personal skills and competences

### Languages

<b>Italian</b>	Native speaker
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	<b>Listening</b> B2
	<b>Reading</b> C1
<b>English</b>	<b>Spoken Interaction</b> C1
	<b>Spoken Production</b> B2
	<b>Writing</b> C1
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Social skills and competences	Good communication skills. Ability to explain a concept differently in order to address the level of understanding of the audience.
Technical skills and competences	Good knowledge of programming languages such as Assembly (x86, amd64), C, Python, Java, shell scripting, PHP and SQL. Understanding of security problems such as buffer overflow, format bug, XSS, CSRF, SQL Injection and race condition. Good background in mathematics and electronics. Good knowledge of Matlab environment.
OS skills and competences	Good knowledge of Linux with emphasis on security hardening and exploitation techniques. Discrete knowledge of Microsoft Windows and OS X.

## Additional Information

Date

**7th July 2011**

Contest:

Member of the organizing committee of the dCTF a 1-day Capture the Flag competition collocated with the 2011 edition of DIMVA, the Conference on Detection of Intrusions and Malware & Vulnerability Assessment in Amsterdam, The Netherlands.

Date

**4th December 2009**

Contest:

Proud member of *Chocolate Makers* team that got the 3rd place at the International Capture the Flag contest organized by the University of California, Santa Barbara.

Date

**7th December 2007**

Contest:

Proud member of the winning team *Chocolate Makers* at the International Capture the Flag contest organized by the University of California, Santa Barbara.

## Projects

KEmuFuzzer

KEmuFuzzer is protocol-specific fuzzer for system virtual machines. KEmuFuzzer generates floppy images to boot a virtual machine and to execute a specific test-case. The same test-case is executed also in an oracle, based on hardware-assisted virtualization. The states obtained are compared to detect defects in the virtual machine. Test-cases are generated using a special compiler that applies certain mutations before compiling.

WWW

<http://code.google.com/p/kemufuzzer/>

proxpy

ProxPy is a highly customizable HTTP/HTTPS proxy, written in Python. It is very handy for web penetration testers and for developers interested in testing their web applications. ProxPy works as a "man-in-the-middle" between the browser and the target application. It has been developed with the purpose to be easily customizable. At this aim, users can write plug-in with minimal effort. Plug-ins are written in Python, and can modify HTTP/HTTPS requests and response on-the-fly.

WWW

<http://code.google.com/p/proxpy/>