

# Curriculum Vitae



## Personal information

First name(s) / Surname(s) Nilo Redini  
Address(es) Via XX settembre N°91 56010, Uliveto Terme, Pisa (PI), Italy  
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E-mail [n.redini@gmail.com](mailto:n.redini@gmail.com)  
Nationality Italian  
Date of birth 02/26/1986  
Gender Male

## Work experience

Dates 05/02/2013 - Now  
Occupation or position held Research scholarship  
Main activities and responsibilities My job is to design and to implement an Android tool to retrieve the bandwidth of wireless links. This tool is part of a bigger project funded by University of Pisa.  
Name and address of employer University of Pisa (UNIPi) ( Via G. Caruso N° 16 56122, Pisa (PI), Italy)  
Type of business or sector Internet programming, crowd sourcing, Android SDK  
Dates 07/18/2012 – 11/16/2012  
Occupation or position held Internship  
Main activities and responsibilities My job was to design and to implement a new access control model for distributed file-systems. The model has been implemented on a new file-system named Pepys.  
Name and address of employer Bell-labs Alcatel-Lucent Ireland Ltd. (Blanchardstown Business and Technology Park, Dublin 15)  
Type of business or sector Cloud computing, distributed file-systems, security

## Education and training

Dates 2/28/2013  
Title of qualification awarded Mater degree in computer engineering with: 110 Cum Laude / 110  
Principal subjects/occupational skills covered

- Distributed, parallel, concurrent and sequential programming
- Security of software systems (RSA algorithm, certificates, digital signatures etc. )
- Computational intelligence
- O.S. and kernel architecture (unix like) with primitives, on single-core and multi-core models.
- Real-time processes and scheduling algorithms
- Internet protocols and architectures (TCP/IP, standard OSI, BGP, OSPF, Mobile IP, ARP, etc)
- Networks architectures (LAN, WAN, PAN, and related protocols)

Name and type of organisation providing education and training University of Pisa (UNIPi)  
Dates 7/16/2010  
Title of qualification awarded Bachelor degree in computer engineering with: 103/110  
Principal subjects/occupational skills covered

- c/c++, c#, ruby, Assembly, Java, Php, Html4, Javascript, Css, Matlab, SQL, Verilog and vhdl
- Mathematical/Algebraical/Physical advanced competences
- Digital electronics (transistors ,triggers, metastable and monostable circuits etc.)

- Digital communications (signals modulation, Fourier's transforms, Lagrange's transform etc.)
- Digital Control engineering and systems theory
- Software engineering

Name and type of organisation providing education and training

University of Pisa (UNIFI)

Dates

5/7/2005

Title of qualification awarded

Graduated from Industrial technical institute in Pisa with 90/100

Principal subjects/occupational skills covered

- Basic c/assembly programming
- Signals modulation
- Basic systems theory
- Building of electronics circuits
- PIC programming
- Programming on I/O interfaces

Name and type of organisation providing education and training

Industrial technical institute in Pisa (I.T.I.S.)

**Personal skills and competences**

Mother tongue(s)

Italian

Other language(s)

**English**

Self-assessment

European level (\*)

**English**

Understanding				Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production			
C1	Proficient User	C2	Proficient User	B2	Proficient User	B2	Proficient User	C1	Independent User

(\*) [Common European Framework of Reference for Languages](#)

Social skills and competences

- Team work: I've practised martial arts for many years and I've participate at team contests, I've worked many times with teams to develop projects and applications. moreover I've worked many years as volunteer..
- Entertainer: I've worked many years with children as entertainer.

Organisational skills and competences

Ability to work under pressure, especially with incoming deadlines; good attitude to projects management.

Computer skills and competences

Publications

- Access Control for the Pepys Internet-wide File-System (in proceeding of the 7<sup>th</sup> international conference on Plan9 in Dublin, November 2012) (Tommaso Cucinotta, Gianluca Dini, Nilo Redini) (<http://7e.iwp9.org/proceedings.pdf>)

Principal developed software and in progress:

- Access control model for distributed file-systems (c)
- Android tool for estimation of wireless links bandwidth (Java/Android SDK)
- Files compressor using Huffman/LZ78 algorithm, for windows and BSD ( c )
- Ftp Client using Curl libraries, for linux (c++)
- Secure chat using Rsa, Diffie-Hellman algorithm, and hashing functions ( java)
- Backdoor for windows (c++)
- Simple anonymous mail sender, for linux/windows (c and c++)
- Local and remote keylogger , for windows (c++)
- Ports scanner, for linux (c)
- Remote shell for windows (UNIX like) (c++)
- Improvement and extension of tool M2G (mobius to gnuplot), for linux (java)
- Shared memory library for processes communication over networks, for linux (c++)
- Library for implement extended synchronization among processes (rendez-vous like, java)
- Hokey game, for Internet explorer, firefox and google-chrome (javascript)

- Controls a of chemical reactor using optimal controllers (LQR/LQG) (Matlab)

Driving licence

**Additional information**

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I have so many hobbies besides software development, they are: reading books (particularly the thriller ones), listening music (I love rock music), playing guitar, skateboarding, martial arts, cinema in all its forms (e.g., I like to investigate about the meaning of the movies, history of the directors etc.), travelling and experience different cultures (I believe that spending time with people from different cultures help to extend our mental horizons).