



Curriculum vitæ

Personal information

First name(s) / Surname(s) Emanuele Aina
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Instant Messaging [em@nerd.ocracy.org](xmpp:em@nerd.ocracy.org) (XMPP)
Homepage(s) nerd.ocracy.org/em
Nationality(-ies) Italian
Date of birth 21 Jan 1982
Gender Male

Work experience

Dates ▶ From Mar 2012 (2012-03) onwards
Occupation or position held Independent Consultant
Main activities and responsibilities Web design and development.
Name and address of employer Self employed (<http://nerd.ocracy.org/em>)
em@nerd.ocracy.org
Type of business or sector ICT
Dates ▶ From Mar 2012 (2012-03) onwards
Occupation or position held Consultant Software Engineer
Main activities and responsibilities Design and development of C/C++ solutions for desktop and embedded system based on the Free Software stack, working remotely in a distributed team.
Name and address of employer Collabora Ltd. (<http://www.collabora.com>)
Kett House, Station Road Cambridge, CB1 2JH, United Kingdom
sales@collabora.com
Type of business or sector ICT
Dates ▶ From Mar 2008 (2008-03) to Feb 2012 (2012-02)
Occupation or position held Independent Consultant
Main activities and responsibilities I worked with different teams to design, develop and maintain several software solutions tailored on clients needs, both for public administrations and for private businesses, always striving to use and promote open source solutions.
For our customers I worked at every level of the software stack, from developing public websites to doing kernel level work for an embedded real-time project.
We always released our work under the terms of open source licences

(LGPL/AGPL) and often provided advice to our customer regarding software licensing issues.

I wrote code in several languages to develop custom products and to integrate with pre-existing solutions (C, C#, Python, PHP, C++, Java, JavaScript).

I've setup many services built with open source components (Postfix, Dovecot, GroupOffice, Samba, Alfresco, Zimbra, Asterisk) to handle our clients needs.

I also worked for a customer to plan and build their LAN infrastructure (VoIP, cabled Internet connectivity, WiFi network separation for guests, mail and file-sharing) for a 40-people office doing heavy multimedia-related works.

I also managed a server farm of several virtual machine hosted on multiple physical servers which ran our services, web frontends and backends.

Name and address of employer	<u>Studio Associato Di Nunzio e Di Gregorio (http://dndg.it)</u> Via Maria Vittoria 2, I-10023, Torino (TO), Italy <u>studio@dndg.it</u>																						
Type of business or sector	ICT																						
Education and training																							
Dates	From May 2005 (2005-05) to Mar 2008 (2008-03)																						
Title of qualification awarded	Master's degree in Computer Engineering, graduation mark 110/110																						
Dissertation title	Distributed system for secure file sharing over local networks (<u>Sistema distribuito per l'invio sicuro di file su rete locale</u> (http://www.barisione.org/files/telekinesis.pdf))																						
Name and type of organisation providing education and training	Politecnico di Torino, corso Duca degli Abruzzi 24, I-10100, Torino (TO), Italy																						
Dates	From Sep 2001 (2001-09) to May 2005 (2005-05)																						
Title of qualification awarded	Bachelor's degree in Computer Engineering, graduation mark 106/110																						
Dissertation title	Implementation of a syntax highlighting engine for GtkSourceView (<u>Implementazione di un motore per la colorazione della sintassi in GtkSourceView</u> (http://www.barisione.org/files/gtksourceview.pdf))																						
Name and type of organisation providing education and training	Politecnico di Torino, II Facoltà di Ingegneria, piazza S. Eusebio 5, I-13100, Vercelli (VC), Italy																						
Personal skills and competencies																							
Mother tongue(s)	Italian																						
Other language(s)	<table border="1"><thead><tr><th rowspan="2">Self assessment</th><th colspan="2">Understanding</th><th colspan="2">Speaking</th><th rowspan="2">Writing</th></tr><tr><th>Listening</th><th>Reading</th><th>Spoken interaction</th><th>Spoken production</th></tr></thead><tbody><tr><td>English</td><td>B2 Independent user</td><td>C1 Proficient user</td><td>B2 Independent user</td><td>B2 Independent user</td><td>B2 Independent user</td></tr><tr><td>French</td><td>A1 Basic user</td><td>A2 Basic user</td><td>A1 Basic user</td><td>A1 Basic user</td><td>A1 Basic user</td></tr></tbody></table>	Self assessment	Understanding		Speaking		Writing	Listening	Reading	Spoken interaction	Spoken production	English	B2 Independent user	C1 Proficient user	B2 Independent user	B2 Independent user	B2 Independent user	French	A1 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A1 Basic user
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English	B2 Independent user	C1 Proficient user	B2 Independent user	B2 Independent user	B2 Independent user																		
French	A1 Basic user	A2 Basic user	A1 Basic user	A1 Basic user	A1 Basic user																		
	(* Common European Framework of Reference (CEF) level																						
Certifications	International English Language Testing System (IELTS), 7.5/9; Preliminary English Test (PET), Pass with Merit.																						
Technical skills and competences	Programming languages: <ul style="list-style-type: none">◦ Excellent knowledge of C, Python, C#, JavaScript, SQL (PostgreSQL), VHDL, Unix Shell (bash).◦ Good knowledge of Java, PHP, C++.◦ Fair knowledge of Perl, Scheme, Assembly ARM, 8085, and x86.																						

Document/data modeling languages:

- Excellent knowledge of HTML5 and CSS3, XML (XSLT, DTD, Schema, and RelaxNG), RDF
- Good knowledge of LaTeX

Development tools:

- MonoDevelop, GNU GCC, GNU Make, GNU autotools (automake and autoconf), version control systems (both centralized and distributed), JHBuild, Yocto/OpenEmbedded

Technologies and libraries:

- Excellent knowledge of the HTTP protocol, .NET APIs (Mono), jQuery, Django, Unix/Linux APIs (POSIX)
- Good knowledge of GTK+/GNOME, Drupal, WordPress, WebKit internals

System administration:

- Excellent knowledge of Debian tools, LibVirt/KVM VM management tools, iptables, Monit, Apache, PostgreSQL, Postfix, Dovecot
- Good knowledge of OpenLDAP, Samba, Asterisk
- Fair knowledge of Alfresco, Zimbra

Driving licence A3 and B driving licence

Projects

Dates	▶ From Apr 2012 (2012-04) onwards
Description	Graphic design concept and HTML5/CSS3 implementation of the <u>Associazione Aspetto</u> (http://www.aspetto.org) website.
Dates	▶ From Apr 2012 (2012-04) onwards
Description	Touch gestures and advanced interaction development on the <u>Clutter port of the popular WebKit engine</u> (http://trac.webkit.org/wiki/clutter). In the course of the project several enhancements have been made to the underlying <u>Clutter</u> (http://www.clutter-project.org) framework wrt. touch event handling and gesture recognition.
Dates	▶ From Oct 2011 (2011-10) to Feb 2012 (2012-02)
Description	Team training and strategic technological advice for an industrial customer coming from a microcontroller background developing a Linux-based real-time solution based on the ARM platform (ELDK/Yocto).
Dates	▶ From Apr 2011 (2011-04) to Nov 2011 (2011-11)
Description	Next-generation web survey and analytics platform for InfluenzaNet (http://www.influweb.it), a research system to monitor the activity of influenza-like-illness developed by the <u>ISI Foundation</u> (http://www.isi.it) under the <u>Epiwork</u> (http://www.epiwork.eu) FP7-funded European framework (Django, PostGIS/Spatialite, Mapnik, JavaScript).
Dates	▶ From Jun 2010 (2010-06) to May 2011 (2011-05)
Description	TorinoScienza (http://www.torinoscienza.it), high traffic scientific web portal for the Provincia di Torino (C#, JavaScript, PostgreSQL).
Dates	▶ From Jan 2010 (2010-01) to Sep 2011 (2011-09)
Description	iCoolhunt (http://www.icoolhunt.com), social network for coolhunters, designed and developed both scalable backend and web frontend (C#, PostgreSQL, HTTP, JavaScript).
Dates	▶ From Sep 2008 (2008-09) to Jun 2011 (2011-06)
Description	Integrated information system for travel & hospitality services, events-specific management tools and web CMS for Ventana Group (http://www.ventanagroup.it/en) (C#, PostgreSQL, JavaScript).

Dates	▶ From May 2008 (2008-05) to Jul 2010 (2010-07)
Description	Programme committee workflow management tools, social collaboration tools for young researchers, semantic web CMS and IT assistance during the event for EuroScience Open Forum 2010 (http://www.esof2010.org) (C#, RDF, PostgreSQL, JavaScript).
Dates	▶ From Mar 2008 (2008-03) to Sep 2011 (2011-09)
Description	Supply chain management tools for Cellino Group (http://www.cellino-group.it) (C#, PostgreSQL, Oracle, JavaScript).
Dates	▶ From Jul 2007 (2007-07) to Feb 2008 (2008-02)
Description	Telekinesis (http://techn.ocracy.org/telekinesis), distributed system for secure file transfers over local networks (C, Telepathy, XMPP/LL).
Dates	▶ From Jan 2005 (2005-01) to Jun 2005 (2005-06)
Description	GtkSourceView (http://gtksourceview.sf.net), (see dissertation (http://www.barisione.org/files/gtksourceview.pdf)) implementation of a new syntax highlighting engine for GtkSourceView, configurable using XML language descriptions (C, XML).
Dates	▶ From Jul 2002 (2002-07) to 2008 (2008)
Description	Debian (http://www.debian.org), Italian translation of the project constitution (http://www.debian.org/devel/constitution.it.html) and its modifications.
Dates	▶ Oct 2001 (2001-10)
Description	Busybox (http://www.busybox.net), ported run-parts from debianutils.
Dates	▶ From Sep 2001 (2001-09) onwards
Description	Free Translation Project (http://www.linux.it/tp), Translation QA and maintaner of the translators' glossary since Jun 2003.
Others	See Ohloh (http://www.ohloh.net/accounts/em-) for a (partial) list of the open source contributions I've done.

For other contacts and further information: nerd.ocracy.org/em

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