

CURRICULUM VITAE

Personal and contact information

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Availability: currently available, but please read on.

What I am looking for

At the moment I am interested in temporary, contract and part-time jobs only: Italian language teacher, English to Italian translator. In the IT field: system/network administration or new developments, especially if I am free to design the software and choose the programming language(s) to use. I favour desktop vs web applications, due the unfortunate lack of good web standards. Please do not contact me about permanent positions. Linux (better if I have free choice of distribution), *BSD and Solaris are my favourite platforms. Relocation is ok, anywhere, if well paid.

I would like to work on high-quality existent code or develop new software from scratch using the best tools available and appropriate for each task. **Please no companies that use outdated and less than optimal technologies and are just looking for a mediocre programmer to get some dull job done.** Unless they want change for the better I would leave such a job as soon as I realize that.

Cover letter: A few pragmatic principles of software engineering constantly guide me in successful software development. I reckon them even more important than any practical knowledge I possess or might acquire: keep it short and simple (KISS), don't repeat yourself (DRY), maintain a high cohesion and loose coupling. I often use a combination of multiple programming paradigms (declarative, **functional**, imperative, object-oriented, object-based, etc) to find out the best solution to challenging problems.

Not all things can be demonstrated. You have to believe in something. Just make sure that your beliefs are reasonable and work in practice. And be open to change your mind when you will know more. Apply this to science as to philosophy or religion. -- Antonio Bonifati

Education and professional qualifications

October 2002 - July 2005: **Bachelor's degree in Computer Science Engineering**, University of Calabria, Italy, score of 108/110. Officially recognized in Spain.

1996: High school Diploma in Electrotechnology, score of 60/60

Languages

English: 2003: Preliminary English Test (PET). Pass with merit. Fluent in spoken English due to working experience in the UK. Excellent written technical English.

Italian: mother tongue.

German: basic, because I am currently studying it.

Spanish: basic.

Employment history (please read down-top)

On request I can send electronic copies of my past contracts (Italian only, except for latest jobs in the UK).

October 2012 - at present: studying Physics in Germany.

September 2011 - September 2012: Self-employed working from home as an on line private Italian language teacher to speakers of English. Knowledge of innovative, structured and syntax-based language teaching methods (Pimsleur, Michel Thomas). I also designed and developed Hyde, a static web site generator and Lisp-based HTML templating language.

July 2011 - September 2011: Sensewhere, formerly SATSIS Ltd, a University of Edinburgh's spinoff. Design and development of custom TCP/IP protocols, web services, large databases. Promote best practices, assessing software quality, maintain systems up-to-date and secure. Face scalability problems. My task was to design and implement the server-side part of their seamless locator solution. Technologies used: Linux, Apache, MySQL, PHP5, C, Berkeley DB, Google Maps API v3. Gross salary: £27000.

August 2010 - July 2011: **Daxtra Technologies**, Musselburgh, Edinburgh, Scotland. Permanent position as Application Engineer, mainly developing in Perl. There I made web scraping, test automation, data extraction/conversion, system integration. Daxtra is a specialist in recruitment technologies and produces software for automated CV parsing and advanced search engines. I have developed for them "Spidey", a new easy-to-use cutting-edge web harvesting and data-extraction framework. Salary: £24000 + bonus of 3000.

August 2009 - July 2010: **Italian Ministry of Education, University and Research (MIUR). OpenKnowTech project. Various activities related to free**

software (development, technical support, teaching). I used IBM blade servers with tape libraries and external storages (DS4700), implemented automatic selective backup scripts, provided high-level support services to Windows/Linux/Mac OS X clients and hw/sw buying advice. While I was doing multiple custom Debian/Ubuntu/CentOS graphical workstation installations I developed a simple, effective, ad-hoc clonation/replication system. I built ready-to-use Free/Open BSD and Ubuntu Server NAT-routers solutions (using leading firewalling software as Packet Filter and Iptables), implemented VPNs with OpenVPN, DNS servers with Bind (including split-horizon configurations) Samba servers (reliable Unix domain controllers and file sharing for Windows clients) and reusable virtual machines images (Virtual Box, VmWare).

June 2008 - December 2008, February 2009 - May 2009: **Centro di Competenza ICT-Sud. Programmer, systems analyst, network and phone technician.** As a programmer I designed and developed the entire company's web portal, using a LAMP (Linux+Apache+MySQL+PHP) system, the PEAR libraries and an extendible programmable CMS. This is a quite complex data-based site with an internal reserved area comprising an inventory, an advanced mail-sending facility, real-time reports, custom tools for the management of employees, job contracts, documents and registers, partners' meetings and much more. As a sysadmin I built the company's computer network infrastructure at all ISO-OSI levels and I even programmed its telephone switchboard.

January 2008 - February 2008: **CNR:** Technical support (Linux, DBMS, OLAP analysis) and data base/data warehouse management for the logistics of the "Gioia Tauro" Calabrian seaport.

April 2007 - July 2007: **UNICAL, Department of Mathematics.** Development of open-source components for data analysis.

Note: While working at the ICAR-CNR Research Institute I also installed and configured all the network appliances (access points, a Cisco router and some switches with 802.1Q IEEE VLANs), computational clusters and the following network services: DHCP, NAT, primary and secondary DNSs, NTP, web proxy, web log analysis systems, file, e-mail, database and web application servers as Tomcat and Glassfish.

January 2007 - April 2007: **CNR.** Designing of data warehouses to support logistics information systems. Also worked as a network technician (see Note above).

November 2006 - December 2006: **CNR.** Development and testing of the Adaptive Graphical Interface component of the M.ENTE system.

July 2006 - August 2006: **CNR.** Development, testing, configuration and management of a platform for the provision of adaptive services (Project M.ENTE, Management of Integrated Enterprise).

December 2005 - January 2006: **CNR**. A study of the theme of "open source systems for computational grids"

(In this gap of time I did not work much in order to complete my degree in time)

November 2004 - February 2005: **CNR (Italian National Research Council), Institute of Calculus and Networks (ICAR)**. Building of the support datamart for a system of Bank Intelligence commissioned by Banksiel Spa.

July 2002 - September 2004: **University of Calabria (UNICAL), Department of Electronic and Computer Science (DEIS). Analyst/programmer, database and Unix systems administrator**. I designed and developed a web site to monitor students' careers, including import/export/cleaning of data and chart/report generation (LAMP, JpGraph). I supervised the Computer Engineering Faculty collaborative wiki (Phpwiki, patching the source code when needed). I designed, developed and maintained Wikilearn, a custom easy-to-use semi-structured wiki-based CMS for e-learning, online tutoring, exam booking, attendance control, etc. (LAMP + the Pear OO framework). I installed, configured and kept secure many development/database/cvs/application/internet servers for DEIS, mainly FreeBSD and Red Hat/Fedora Linux. Here's a sample of my admin notes related to a web/e-mail server that is still used and has been up for years without any problem (Italian only).

May 2000 - July 2002: **Polytechnic of Milan (POLIMI), main web office (SIWA). Web developer and systems administrator**. I implemented most of the backend scripts of the Polytechnic main site using Perl, AMP (Solaris/Linux + Apache + MySQL + PHP) and some C for the most requested services. I designed and developed the site of the Management Engineering Department with LAMP + templates for full separation of business logic from presentation logic. I used Htdig to implement the search engine. I designed and implemented the first version of the TOP (Test On Line), a web client-server application for assessing the starting level of students before admission to Polytechnic faculties (LAMP + client-side JavaScript). For the PoliMI intranet, I developed the registry of research paper, using LAMP and XML technologies.

Main referees

Please use links for contacts.

Mark Orr, Chief Software Architect at Daxtra Technologies Group.
Prof. Domenico Saccà, senior lecturer in Computer Science and former manager of the ICAR-CNR Research Institute.
Prof.ssa Barbara Pernici, full professor of Computer Engineering, Stanford University MSc.

Know-how

Operating Systems: Unix and Linux (RHE, CentOS, Debian, Arch, Ubuntu et al.), Solaris, FreeBSD, OpenBSD, Mac OS X, Cisco IOS (routers and switches)

Web and programming languages: (Common) LISP, Scheme, Perl, PHP5 and Pear, Awk, Unix shells including Bash, C, C++, Tcl/Tk (example apps), Prolog, HTML5, XML, DTD, XSLT, XPath, CSS, JavaScript plus Mootools and Prototype.

Database systems: MySQL, non-relational Berkeley DB and Berkeley DB XML

Applications: Apache, MODx CMS, LVM, Spamassassin, Htdig, OpenVPN, Samba, Sendmail, Exim, Postfix, Bind, Ssh, Cvs/Git/Svn, Sudo, VmWare and VirtualBox, Vi/Vim, Iptables, PF Firewall, AWStats, Latex, *roff.

Web scraping tools: HtmlUnit, Curl, WWW::Mechanize, WWW::Mechanize::Firefox, WWW::HtmlUnit.

I'm also available for working abroad and remotely.