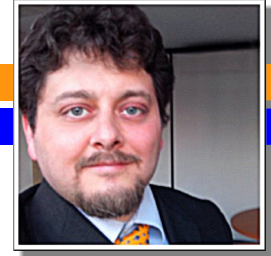


Roberto A. Foglietta

Innovation Technology Consultant

Unix/Linux Solutions Architect



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Curriculum Vitae

You are granted to submit to others or store in your systems the information contained in this profile as long as you will do it as-is here presented. For further information or updates do not hesitate to contact me by e-mail.

Education

• Executive Master in Innovation Technology Management, 2014 – 2015

Bologna Business School – Università di Bologna, to complete on November 6th, 2015

Courses Subjects: Strategic Cost Management, Strategic Innovation Management, Intellectual Property Opportunities, Strategic Entrepreneurship, Marketing, Technology Innovation Management, Technology Strategy, Entrepreneurship Business Planning, Project Management, Enterprise Operative System and Supply Chain, Leadership and Creativity.

• Master in Free & Open Source Software Technologies, 2005 – 2007

Alma Graduate School – Università di Bologna, degreed on January 10, 2008

Courses Subjects: License Models, Business Models, Project Management Tools, Networking, Italian and International Copyright and Patent Law Principles, Team Collaboration and Workgroup Tools, Software Revision Control Tools, Wiki, Applied Security Principles.

• Bachelor of Science (BSCD) in Physic, final project in cybernetic (neural network), 1993 – 2003

Università degli Studi di Genova, degreed on March 24, 2004

• Higher School (HSCD) in Industrial Electronics, theory and laboratory courses, 1988 – 1993

I.T.I.S Aldo Gastaldi di Genova, degreed on November 11, 1993

Courses attended

- 2011 - Digital Forensic & Cybercrime Investigations Advanced Training Course (Genova, Italy)
- 2008 - Intensive Full Immersion Linux Embedded Training Course (Vence, France)
- 2003 - 8 months part-time Advanced English Language Course (Genova, Italy)
- 2002 - 4 weeks full immersion English Language Course (Valetta, Malta)
- 2002 - 8 months part-time First Certificate of English Language Course (Genova, Italy)
- 2001 - 4 weeks full immersion English Language Course (Eastbourne, UK)

Languages

- **Italian:** Native or bilingual proficiency
- **French:** Limited working proficiency
- **English:** Full professional proficiency
- **Spanish:** Elementary proficiency

Presentation

Creative problem solving strongly oriented to results with an executive attitude to take decisions and manage responsibilities. Capable to bring value in team and to maintain an independent perspective. Proficient to work under tight dead lines and restricted constrains. Able to identify commercial trends and pursue business opportunities. I like to be involved in a product or service delivery from the scratch to the end user.

- As senior UNIX/Linux software and system architect with 15 years of experience, I was involved in delivering solutions from real-time embedded systems to high availability high power computational cluster for financial analysis. I was also involved in designing and developing graphical user interfaces for automotive and industrial markets with different valuable characteristics like user-friendly, easy-to-change, low-bandwidth remotable and low-latency updates in interactions and displaying.
- Professional experienced in following roles: Linux HA HPC-Cluster System Architect (progettista di sistemi ad alta potenza di calcolo e alta affidabilità), Linux Embedded System Architect (progettista di sistemi Linux embedded), RTAI/RTnet Linux Kernel Driver Developer (sviluppatore Linux real time kernel driver), Posix/Unix/Linux Software Developer (sviluppatore software piattaforma Unix), Low-Bandwidth Networking Simplified Graphic User Interface Designer (sviluppo di interfacce grafiche utente semplificate a ridotto consumo di banda), On-The-Shelf Hardware and FLOSS Integrator (integrazione di elettronica di consumo e software OpenSource), Digital Forensic Advisor (consulente tecnico forense di parte).
- Career contracting and negotiation evolution: part-time (2000 and before), employee (2001 – 2006), consultant (2006 – 2008), self-employed consultant (2009 – 2013), entrepreneur (2011 – 2013), working abroad (2014), master studying (2015).

Academic Projects

Business Plan based on a Patented Technology

EMTIM, Entrepreneurship & Business Plan, May 2015 – July 2015

Professors: Paolo di Marco, Rosa Grimaldi, Antonella Villano

Team size: 6 members

Presentation of a business plan about application of a patented lightweight power-saving micro-piezoelectric ultrasonic active/passive sensor for avionic structural integrity real-time in-flight check in civil commercial airplanes maintenance management.

Sleeping Cabs for International Hub Airports Start-up Plan

EMTIM, Final Project Work, September 2015 – November 2015

Professors: Massimo Franceschetti, Mauro Marini, Claudia Miani, Anna Raffoni

Team size: 6 members

Presentation of a business plan about how to start-up and run a sleeping cabs facility for international airports

Academic Thesis

Real-time Linux kernel network driver for controlling stepper motors

MOFSSSET, Thesys, March 2007 – July 2007

Professor: Alessandro Rubini

Web page: lugge.wikidot.com/foglietta

Master thesis about a control system based on a real-time close-loop feedback implemented on standard Ethernet RJ45 network and RTAI/RTnet Linux reduced TCP/IP stack driver. Source code of the device driver and user-space complementary software were published into a wiki

Publications

Glade visual C/GTK+ programming course by examples

Linux & C. magazine n.6, 7 and 8 – April, 2000

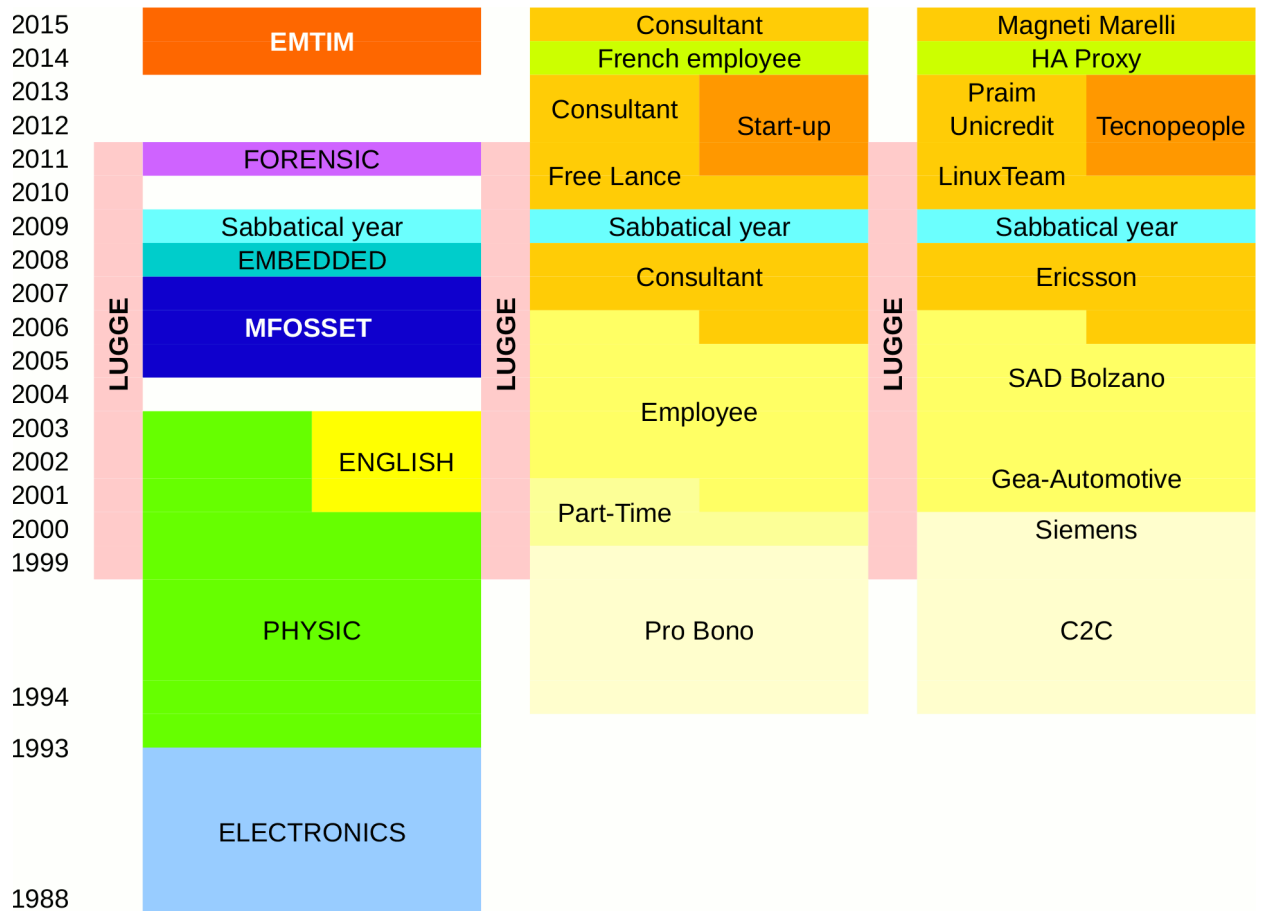
An introducing course by examples to GTK+/Glade/C about graphical applications software development. Three articles, published on the Italian periodic Linux specialized magazine in April, May and June of 2000

Encrypted Filesystem Benchmark

Hakin9 magazine n.10 – October, 2007

Starting level article about cryptographic file-systems: usage motivations and compared benchmarks over different storage supports. Published in October 2007 on an international security magazine.

Summary



7 people have recommended Roberto

"Roberto is a highly motivated professional, goal-oriented and enthusiastic about technology. He's very keen to take over responsibility for tasks in his own field of competence and is always ready to move on swiftly to the next challenge, but after achieving the goals agreed, with determination and by completing carefully all the related activities - from design and planning of activities to system maintenance documentation. Roberto demonstrated furthermore solid human and personal ethical values." — **Alessandro Carone**, *Senior Manager, Nolan Norton Italia (KPMG Advisory)*, was with another company when working with Roberto at Unicredit Global Information Services (2012)

"I find Roberto as a high level specialist with vast knowledge in all sort of UNIX oriented technologies. Roberto run a few session according to High Performance Calculation cluster to me during my entry period for Sophis team support and provided with lots of useful information from system architecture perspective. Although at that time his project ended I hope we will be able to meet and cooperate in a future other UNIX connected work." — **Wojciech Nowicki**, *Senior Application Analyst at Unicredit (UBIS), Unicredit*, worked with Roberto at Unicredit Global Information Services (2012)

"Roberto is very proactive and creative in solving tasks assigned to him. He is always trying to found new ways to complete his commitments." — **Francesco Curto**, *Senior Software Developer, Unicredit Global Information Services*, worked directly with Roberto at Unicredit Global Information Services (2012)

"He knows very well his job and has brilliant ideas for developing products." — **Andrea Bergonzoni**, was Roberto's client as Well Engineering s.r.l. (2009)

"Roberto is a worthy professional, very headed to his commitments. He has a deep knowledge of linux embedded systems and has a unique creativity in his job." — **Paolo Climan**, *Software Designer, Marconi-Ericsson s.p.a.*, was Roberto's client and worked directly with Roberto at Marconi - Ericsson s.p.a. (2008)

"Roberto is a skillful IT consultant, actually a problem solver, proactive and with a strong attitude in team collaboration. It is a pleasure working with him" — **Paolo Leoncini**, *IT Engagement Manager, Gruppo Sigla s.r.l.*, worked directly with Roberto at Marconi - Ericsson s.p.a. (2008)

"Roberto is a talented linux embedded developer/architect who consistently came up with creative solutions to difficult problems on tight deadlines." — **Emanuele Castagno**, *Branch & Business Manager, ISL - Altran Group*, was with another company when working with Roberto at Marconi - Ericsson s.p.a. (2008)

Contact

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Top Skills

Linux
Unix
Shell Scripting

Languages

English (Full Professional)
German (Elementary)
French (Limited Working)

Certifications

Passaporto internazionale senza
restrizioni
Duolingo French Fluency:
Intermediate (30%)
Duolingo German Fluency:
Intermediate (30%)
Patente B per auto e A per motocicli

Publications

Glade visual C/GTK+ programming
course by examples
Encrypted Filesystem Benchmark

Roberto A. Foglietta

Linux Device Driver Developer at Altran
Genoa

Summary

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STANDING UP OVER CHANGES AND CHALLENGES

An exceptional general problem solver in a growing number of fields. In particular those are related to data, information and processes. In a world of ultra-specialized professionals, able to connect & coordinate these vertical skills in a coherent vision to empower the business and tracking its KPIs. Proficient in managing projects and driving innovation.

Experience

Altran
Linux Device Driver Developer
July 2020 - Present (5 months)
Genoa, Liguria, Italy

Developing, integration and testing of a multi-functional Linux Device Driver including Ethernet, scatter-gather DMA and character devices plus an application library GenTL standard compliant to manage the events and the chain of acquisition. Statistical analysis and control of the system latencies. This software has been developed for a low-latency very high-resolution video acquisition.

Technologies: Ubuntu, Linux Kernel, C, Git, GitLab, GenTL standard

www.moonwalkers.it
Moonwalker's Innovation Technologies
June 2016 - September 2019 (3 years 4 months)

- Project Management and Team Leadership
- GNU/Linux Development and Open Source Architecture
- Copyright, Copyleft and Patents Management
- Business Innovation and Management Support

www.roberto.foglietta.name

Unix/Linux Senior Engineer & Open Source Expert

July 2000 - December 2015 (15 years 6 months)

Italy

Supporting the executive management in delivering results since year 2000, under different type of engagement mainly as freelance consultant.

Magneti Marelli

Linux Embedded System Integrator as Consultant

November 2014 - July 2015 (9 months)

Akhela s.r.l. (before became A-key s.r.l.) as contractor, Magneti Marelli s.p.a. as final client. One time contract.

Multi projects multi components software integration, C/C++ code review and development support. Setup independent off-process tool-chain to gain a compile & build double check. Develop a Bash scripts set for quicken routine operations like switching from a project/revision to another and mixing components, highlighting and addressing merge conflicts, compile/build logs analysis for anomalies and differences. Git know-how transfer in order to distribute and anticipate merge conflicts. Git branches management. Improved tickets tracking to support unit/system tests and to correlate different unsuspected behaviors to common a source bug.

Jira, Confluence, FishEye, Crucible, GIT, SVN, Eclipse, Lauterbach Trace32, Parasoft C/C++ test, Ubuntu, Fedora, MISRA C++ 2008, MISRA C99 2012, Wind River ARM6 Linux toolchain.

HAPROXY Technologies (formerly Exceliance.fr)

11 months

Linux Embedded Software Developer as Employee

January 2014 - July 2014 (7 months)

Linux Embedded Consultant as Freelance

September 2013 - December 2013 (4 months)

Roles and responsibilities: Linux software integration and documentation for high-availability embedded system; Cross compiling tool-chain maintenance, documentation and development; Shell scripts code verification, bug fixing and maintenance; Development of the units test suite and the system test plan; Delivery the releases, develop and maintain the release system and procedures; Business logic for e-commerce for high-end products (no mass market), User interface (tailored for the specific marketing model) and Automation of licence delivery system.

KVM, QEMU, svn, git, gcc, glibc, crosstools-ng, squashfs, stunnel, SSL, openssl, uclibc, toolchain, ubuntu server.

Comune di Celle Ligure

Linux System Administrator as Freelance

August 2013 - August 2013 (1 month)

Savona Area, Italy

One project contract + maintenance support, DNS/HTTP proxy, internet/intranet gateway, firewall, fully qualified domain name (FQDN) SMTP/IMAP, mail user shell script management, ubuntu server.

Praim s.r.l.

R&D Linux Embedded Architect as Freelance

April 2013 - August 2013 (5 months)

Trento, Italia

R&D temporary team leader as free-lance consultant. Release management, test plan & cases management, technical support for marketing and client management.

SW: Ubuntu, U-boot, PXE, Quick-Init, Atlassian Jira & Confluence, Git, Cogitek RIACase, bootchart.

HW: Cedarview, ARM, SoC, TI DM8148, bank checks scanner.

Tecnopeople s.r.l.

Founder, Co-Owner & CEO, sold in Q1 2013

January 2011 - January 2013 (2 years 1 month)

Start-up as information technology company and developed as implant one. Sold in the beginning of 2013, I licensed the brand and kept the ownership of IT solutions developed.

Role: raising private funds, starting-up and producing the initial business plan, branding and promotion, marketing and partners program development, organizing the company structure and documentation model, operational model development, credit recovery model development under the Italian law. Exit strategy.

UniCredit Italia

HA-HPC Linux Cluster Architect as Consultant

July 2012 - December 2012 (6 months)

Monaco, Germania

Altran Italia as contractor, Unicredit Global Information Services s.c.p.a. as final client. One project contract, I was hired as Senior Linux System Architect to support for developing RedHat High Availability HPC Cluster architecture for the Basel/Basilea 3 driven Sophis Risk Full Re-evaluation and VaR (Value at Risk) Monte Carlo based calculation. The xCAT (Extreme Cloud Administration Toolkit) was used as cluster administration tools and Zabbix as monitoring system.

RedHat Enterprise 6.3 High Availability Cluster Suite, xCAT (extreme Cluster Administration Toolkit), Zabbix (remote web monitoring suite), shell scripting.

www.linuxteam.org

IT B2B Independent Freelance

March 2009 - March 2012 (3 years 1 month)

Genova, Italia

Linuxteam.org was not a company but a network of free-lances organized to deliver a set of services integrated with homogeneous quality and presentation. The basic idea was to emulate the bazaar software production model as business model, instead. Roles: GNU/Linux server administrator and security adviser for small companies in Liguria area; forensic consultant for private defence in trial in which computers and/or digital devices were involved.

Well Engineering s.r.l.

Linux Embedded System Architect as Freelance

July 2004 - December 2008 (4 years 6 months)

Part-Time working by remote

Delivering 3GCAM and BTBox as software products and system infrastructure. Several steps project, from draft to the market and after sales SW support.

(1) Design and develop (3GCAM) a fast time-to-market project distributed Linux embedded system based on ACME FOX board and on-the-shelf megapixel camera in order to take pictures from different locations and collect it on a remote server using low bandwidth GSM/UMTS connections.

(2) Design and develop (BTbox/BlueFlowerBox) a very fast time-to-market project based on 3GCAM platform but tailored for proximity Bluetooth marketing, in particular: Microsoft Windows Vista lunch campaign in Italy.

C language, shell scripting, M2M system integration, Acme System Fox board SDK, Makefile, PPP, AT modem commands, bluetooth, security, HTML, PHP, Apache, networking.

Ericsson (formerly Marconi)

Linux Embedded System Architect as Consultant

May 2006 - September 2008 (2 years 5 months)

Genova, Italia

Altran Italia s.p.a. as contractor, Ericsson s.p.a. (formerly Marconi s.p.a.) as final client. Involved in four projects.

(1) Bug fixing and a partially rewriting of a Yenta PCMCIA hot swappable compact flash driver (for the Texas Instruments 1420) for a Linux kernel running on a dual PowerPC (PPC 750) microprocessors custom board dedicated in controlling an array of optical telecommunications boards (OMS-ETN).

(2) Extreme reduction of the embedded system storage footprint and integration of PSOS compatibility API layer to user space applications. Customer suddenly decided to abort the project in favour of the commercial supported VxWorks alternative.

(3) Introducing security countermeasures in a Linux system embedded in a PowerPC board dedicated to control an array of ADSL access management boards. This controlling board was part of new version of a wide spread Marconi/Ericsson product named EDA 2530. In order to add new security features and services, I developed a shell scripting based specific-tailored integration software environment to apply even critical upgrade to the system, in order to reduce the developing cycle, deploying, testing and debugging times. The system has been progressively changed and completely tested piece by piece.

(4) Integration of tailored developing, cross-compiling and deploying system cited above into the developing infrastructure of the client, documenting its functionality and know-how handover.

C language, Linux kernel driver developing, Linux application developing, CVS, shell scripting, Makefile, Trac, SVN, security.

SAD TRASPORTO LOCALE SPA

Linux Software Developer as Employee

March 2004 - February 2006 (2 years)

Bolzano, Italia

Servizi ST s.r.l. as employer and SAD Trasporto Locale Bolzano as final client. Developing software for a Linux system embedded in a ticket automatic seller machine and software for the bus station of Bolzano and Bressanone to integrate the main information system (SII) that keeps about 500 buses under control and give out information to the customer. Speaker at Linux World Expo 2004 in Milan introducing SAD as the eldest company using Linux embedded in Italy.

C and C++ language, HTML, PHP and shell scripting, SQL.

Tecnoelettrica Brianza s.r.l.

Linux Software Developer Advisor as External

February 2004 - February 2004 (1 month)

Part-time working by remote

One project contract, I was remotely hired to design and develop a C/C++ software in order to establish a communication link between a PLC by a Modbus and a web application. The web application was design in collaboration with the client for their specific needs and developed by myself. This web GUI allows the control centre to change the colours and light intensity in dozens of PUPA cosmetics outlet/shops around the Europe.

C and C++ language, HTML, PHP, MOD bus, TCP/IP sockets.

Italian National Police - Polizia di Stato

Network and Security Advisor as External

January 2004 - January 2004 (1 month)

Genoa Area, Italy

One project contract + know how transfer, I was hired to design and deploy a firewall and a mail/proxy server for the Telecommunications Department of the Italian Police in Genoa.

Squid proxy, qmail, iptables, security, networking.

GEA-Automotive s.r.l.

R&D Linux Embedded Software Architect as Employee

October 2001 - December 2003 (2 years 3 months)

Genova, Italia

Developed a Linux Embedded System with an integrated automatic compiling environment and a fast editable embedded graphical user interface for automotive cockpits based on object oriented C self-produced library with low-bandwidth (GSM/GPRS) network support and DirectFB graphic libraries able to remote the view of cockpit and share the basic values about the supervised system.

C and C++ language, CAN bus, TCP/IP sockets, DirectFB, shared memory & IPC mechanisms.

Controlli Numerici Industriali s.r.l.

Linux GTK+/C GUI Developer as External

May 2001 - October 2001 (6 months)

Part-time working by remote

EMI Music Italia s.p.a. as final client. One project contract. I was remotely hired to write using C/C++ a GTK+ GUI in order to keep under control the EMI Music Italia Operations S.p.A.'s expedition mechanised warehouse.

Object oriented C language programming, GTK+ with soft real-time constraints, TCP/IP sockets, SQL.

Siemens Italia

Solaris Shell Scripting Procedure Developer as External

July 2000 - December 2000 (6 months)

Milano, Italia

Cleis Technologies s.r.l. as contractor. One project contract.

I was hired to work for Siemens (Milan, IT). I was charged to complete the shell script OMP/OMC installation procedure which was able to deploy and properly

configure a Solaris OS and a Oracle DB into a SUN 4000/4500 server in order to track down and invoice the GSM traffic.

Solaris sh, csh, ksh, bash shell scripting, Solaris OS, SUN Sparc, CVS.

Education

Bologna Business School

Master's Degree, Executive Master in Innovation Technology Management · (2014 - 2015)

Università di Bologna

Master's Degree, Free & Open Source Software Technologies · (2005 - 2006)

University of Genoa

Bachelor of Science (BSc), Physic, Cybernetic · (1993 - 2003)

I.T.I.S. Aldo Gastaldi

Higher School (HSc), Industrial Electronics · (1988 - 1993)