

## Curriculum Vitae for TP7123 (Marco)

### Personal Data

DOB: August 26, 1966  
Nationality: Italien  
Sex: Male  
Living: Denmark: 5890 Tommerup  
Italy: 31021 Mogliano Veneto  
Family Status: Separated, Two sons

### Introduction

Since 2004, The Consultant has been working as contractor in the following roles: Software Developer, IT Technical Consultant, Project Manager, System Administrator and Strategy Consultant.

In the vast majority of work experiences, his key role was to introduce innovation, including new technologies or frameworks, new work organizations or management practices. In some cases, he had a central role in start-up companies.

The Consultant like challenging experiences, edge technologies and working in an international environment.

### Education

05/08/1985 Diploma: "TECNICO DELLE INDUSTRIE ELETTRICHE ED ELETTRONICHE" at the "Edison" I.P.S.I.A., Marghera (VE), with 54 marks out of 60  
14/12/1992 University Degree in ELECTRONIC ENGINEERING WITH SPECIALIZATION IN TELECOMMUNICATIONS at the University of Padua, with 101 marks out of 110  
Thesis Title: "*Project and construction of a control unit for an optical fiber Fabri'-Perot filter*"  
25/05/1994 ELECTRONIC ENGINEER QUALIFICATION, at the University of Padua.

## Main Software Developing and IT Skills

### Operative Systems:

Linux (mainly Ubuntu and Debian or Debian-like, but also experience in Red Hat, Slackware, Suse)  
Android  
Windows (Win '98, N.T. 4.0, 2000, XP, 2003)  
UNIX (HP-UX, Solaris 9 and 10)  
MS DOS.

### Programming/Scripting languages - Development Systems - Frameworks:

*C/C++:* Eclipse CDT, Qt Creator, especially for android development using Google sdk and ndk.

*JAVA & J2EE:* Eclipse (either Ant and Maven as buiding framework), Rational System Architect (RSA and RSD) for Websphere Application Server, EJB, SWING, Hibernate, JPA, Spring framework, Servlet

Java Application Servers: Jboss, Wildfly, Tomcat, Websphere, Weblogic, Glassfish.

Good knowledge of automatic tests metodology using JUnit.

Good knowledge of Java Messaging service (JMS).

*Visual Basic* (VBA,VB from 5.0 version): good knowledge of COM and ActiveX, Visual Studio, good knowledge of .NET architecture and c# programming.

BASH Shell scripting, Python, knowledge of PHP, and Perl.

*Database:* MySQL, Oracle, Microsoft SQL Server, Access, good knowledge of SQL language.

*WEB development:* HTML and JavaScript, J2EE (JSF and JSP), VB Script and Active Server Page, PHP, XML (XSD & XSLT, SOAP), JSON, JQuery.

DevOps and Sysadmin: Maven, Jenkins, Nexus, Atlassian Suite (Jira / Confluence / FishEye / Bitbucket), Ansible, Vagrant, Virtualbox, VMWare, Docker, Salt, SonarQube.

*Project Management:* Clarity, Microsoft Project

*Other suites and Programs:* Openstack Cloud suite and Framework, Wireshark, IPTABLES, Matlab, Unified Modeling Language (UML), Microsoft Office, Openoffice.

*Networking:* Good Knowledge of LAN and WAN Network architectures and components, and of the most common needs and problems, working experience in Cisco-Linux mixed environment.

## General Skills and Experience

Extensive Experience as Team Leader and Manager of either Software Developers, Application Management Operators, RF Engineers and Network optimizators, in the most noticeable case the Consultant had direct supervision for more than 45 Persons.

Documentation Writing and pratical Training of Technical resources skills.

Experience of Direct support to customers and Pre-Sales.

Third parts Software Tools Analysys and selection, writing supplier technical requirements.

## WORK EXPERIENCE

The following is a partial list and brief description of the main projects and jobs the Consultant been involved.

From 05/09/16 to 03/02/2017 Software Engineer in DevOps Team, R&D Department of Universal Robots

Universal Robots (<https://www.universal-robots.com/>) is a Company that produces cost effective robot arms with a very friendly user interface that can be used to program the robot for a wide variety of tasks.

As DevOps my role was to automatize as much as possible, implement the continuous development paradigm and support researchers and developers.

As Major contribution I have completely rewritten the code for building the Robot Simulator software in standalone and Virtual Machine version, and I have been the interface among Tech Support and R&D Department collecting requirements and new features requests.

My tasks included the R&D internal documentation writing and updating, and the managing of the users in the integrated Atlassis suite used to manage the R&D developers work.

A brief list of technology items involved on a daily base:

- Linux/Python/bash
- Maven/Jenkins/Nexus
- Ansible/Vagrant/VirtualBox
- Atlassis Suite (Jira, Confluence, Crowd)

From 01/03/15 to 03/09/2016 Java Software Developer for Ubexe

Ubexe (<http://www.ubexe.co.uk/>) is a UK company focused on innovative payment solution systems, I have been deeply involved in the development of its proprietary solution that has been applied for instance in the Italian Bank BNL (Banca Nazionale del Lavoro):

<https://bnlp.ponepay.it/>

Worth to mention that all the development work has been done from remote.

I also have been involved in the meetings and demos with BNL as presales.

A brief list of technology items involved: Java J2EE, Wildfly, Spring Boot.

From 01/10/15 to 31/07/2016 (Part Time Consultancy activity) Chief Delivery Officer (CDO) of TMW

As Experienced Embedded Developer and IT consultant I worked as Chief Delivery Officer (CDO) for TMW (<http://www.becausetmw.com/>), a German but english speaking company based in Munich, where I was responsible for the Delivery of innovative embedded-related products.

The TMW company develops on-line, 'hands-on' product experiences, a kind of complete virtual laboratory, see for instance <https://vimeo.com/119395995>.

A brief list of technology items involved: C/C++, Arduino, php.

From 09/03/15 to 02/09/2016 IT Consultant & Java Developer (Italian Bank and Insurance Companies)

As Experienced Java developer and IT consultant I worked in Italy as free consultant and I have been involved in a variety of projects in Bank and Insurance Markets Fields, All projects have involved Java J2EE Technologies.

As main Jobs and Companies (in reverse chronological order):

->I.T. Euro Consulting (for Generali Group):

Project Manager (PMO) in ISIOM Department: project management of all software modification introduced in the main portal and subsites ([www.generali.it](http://www.generali.it) and [www.genertel.it](http://www.genertel.it)).

->Unicredit:

In UBIS (Unicredit Business Integrated Solutions), Verona, Italy, In the Credit Card & Remote Payment Unicredit Department: Project Management and Java Software Development in migrating to ACI Proacting Risk Manager (PRM 8.3.5), a leading Fraud Management Software, and porting and development of related java customized components named Addins.

Back End Java Development of Business Financial Product (advance invoices). Consultancy and pre-sales assistance in “decommissioning”: moving from a IBM Mainframe Architecture to “open” Architecture: Java J2EE/Oracle/AIX/Linux based Architecture.

->Generali:

Assistance in Handling the Knowledge transfert of Application Management of Genertel Portal ([www.genertel.it](http://www.genertel.it)) for Tata Consulting Service (TCS) from previous Provider.

->Finantix: Java Development

From 04/08/14 to 28/02/2015 Technical Consultant & Embedded Application Development Engineer for Atos Wordline

Atos Wordline is a leading Company active in Merchant Services & Terminals, eMobility and eTransactional Services and Financial Processing, it produces Point of Sale (POS) devices, the branch where I work is located in Brussels (Belgium).

Within the Technology & Products division, I was a part of a team working on the International business customer technical support for the platform software of the POS payment terminals. The ATOS-Wordline platform software is a layer (middleware) between the Operating System of the POS and the payment applications. I did cooperate with a extended team consisting of colleagues in Belgium and abroad that is in charge to support and solve business customers technical problems worldwide.

Cause of the variety of environment characterizing customers the common task performed in my department requires not only excellent technical skills and extensive knowledge of programming languages like Java and C (Eclipse) as well as practice of Posix/Linux OS but also a more general extensive multidisciplinary competence on IT and networking tools for low level analysis like for example Wireshark.

Our development methodology is based on Agile methodology.

Language supported for the POS Application Developing Framework are Java and c.

As Embedded Development Engineer I also contribute in supporting, defining, analysing, developing, validating and documenting the core platform software.

From 16/01/12 to 30/06/2014 Project Software Development Engineer for Huawei

I have been working for the research and development departments of Huawei, I have first been issued in Huawei Technologies Sweden in Kista, Stockholm, then I have been moved to Huawei Technologies Duesseldorf GmbH located in Munich where I actually live.

In Huawei I have been involved and contributed in various research and development projects, either internal to Huawei or as contributor to European Research Programs, my activity has been either to develop software for implementing the algorithms of the research projects or the related demo and proof of concept, to project and develop hardware and software platforms following the requirements of the research teams as well as evaluating existing open source or commercial software solutions.

As main contributions (in reverse chronological order):

->I developed a c/c++ Library for Audio Finger Print (AFP) that runs on multiplatform environment (Windows, Linux, Mac OS X, IOS, Android), with focus on targeting Android platform, starting from a previous application written in plain standard c language that was running only on Windows (original RAD: visual c++ 6.0).

It's worth to mention that the porting and developing of the application has been done in “pure” c/c++ heavily using Qt and ndk, no row of java code used even for Android platform, and that the code has been released as compiled statically linked libray, avoiding to share source code for internal intellectual property safety guidelines.

->I settled up and developed a cloud platform essential for the research programs of FCN (Future Carrier Network) team, the platform is based on Openstack framework and Python language.

It's worth to mention that working with Openstack framework lead me to actively participate in the Openstack community life: I am actually moderator of official Openstack and Openstack-doc mailing lists and I wrote and publish a comprehensive Openstack installation guide (see: <https://github.com/fornyx/OpenStack-Havana-Install-Guide/blob/master/OpenStack-Havana-Install-Guide.rst> ) that received nearly unanimous positive comments and reviews either on Github or community mail lists.

->The European research programs where I have been working was SAF: Smart Agri Food Project, my contribution has been to develop two Android Applications as proof of concepts of possible SAF services in managing and tracking the food production and distribution chain. I also developed a Web service for rose decay algorithm as proof of concept of SAF B2B services. Another part of the work has been the software evaluation and Testing of IBM CEP (Complex Event Processing) software tool.

->I have been involved on Hardware platform projects and commercial offers evaluations for various departments of the Huawei Munich Research laboratories and projected the main part for my team.

->UCSA-UTS-PoC (Quality of Experience new generation tools) for all 2012 and first months of 2013 I have been developing in java for UCSA-UTS-PoC, despite the original aim was just to have a Graphical User Interface for the project main demos, in the late part of the project, when it had to be passed to "product lines" we had to completely re-factor the main internal algorithm and to map it in the java code. For this I had to work and collaborate closely with the researchers and the programmers in charge to receive and integrate the algorithm in existing Huawei tools.

->Research on RAN Huawei/NSN equivalent KPI and Counters

->Research on Existing state-of-the art of Optimization tools and their geo-locations capabilities

A brief list of technology items involved:

Qt Creator, Android sdk and ndk for porting complex algorithms written in c/c++ code to multi platform environment, with particular focus on Android platform.

Openstack Platform for cloud software used to implement the proof of concept for Future Carrier Network.

IBM CEP (Complex Event Processing) was evaluated with my relevant contribution in European SAF (Smart Agri Food) project.

Eclipse with various plugins, i.e. Android sdk or google windows builder

Java language, SWING framework for GUI developments.

From 01/08/11 to 11/01/2012 Senior Engineer and Android Java Developer for Ericsson/Wind  
I worked for Ericsson in Wind, the Italian Telecommunication Operator, my activity was focused on measurements on existing mobile network, the goal was to produce a new generation of software measurement tools based on free and open source tools and framework: Android as operative system environment.

A brief list of technology item involved:

Eclipse with Android plugin as development environment, Java language.

Google Maps and Google Earth as "Viewing" technology.

Ericsson TEMs and Nokia Nemo as actual core technology for testing.

From 15/02/11 to 29/09/11 Senior Software Engineer and Java Developer for Allianz  
Allianz ([www.allianz.com](http://www.allianz.com)) is leading International Insurance company which first developed Pay Per Use Insurance model for vehicle which is accessible via web portal (<https://www.allianzppu.com/>) and is based on the presence on the cars of an On Board

Unit that using GPRS and simple SMSs reports to the central system all data recorded on vehicles (like kilometers, GPS locations and routes done, speed, etc etc).

My activity in the PPU development department located in Trieste, was focused on projecting and developing new features in existing web portal, first of all a Virtual Operator that, using an Interactive Voice response, can help Human Customer Care Operators in managing peaks of Customer requests.

A brief list of technology item involved:

- Eclipse as development environment.

- Java J2EE Enterprise Java Beans 3.1 as core technology.

- Jboss 4.2 as Java Application Server.

- JPA and Hibernate as Object Relational Mapping, Oracle as Database.

- Netty (<http://www.jboss.org/netty>) to manage communications from and to OBU.

- JollyDay for managing national and local Holidays for Customer Care Service Level Agreement.

From 01/11/10 to 31/01/11 Senior Software Engineer and Java Developer for Softsel  
Softsel (<http://www.softsel.it/>) is a consultancy company deeply focused in IT Banking Industry.

My activity has been to develop software features for Softsel customers, Unicredit and BPER web Portals.

A brief list of technology item involved:

- IBM Rational Software Architect and Rational Application Developer as development environments (Eclipse Based).

- Java Server Faces as front-end technology

- Java J2EE Enterprise Java Beans as core technology.

- WebSphere as Java Application Server.

- Spring as Additional Java Framework.

- JPA and Hibernate as Object Relational Mapping, Oracle and DB2 as Databases.

From 15/02/10 to 15/09/10 Senior C/C++ Developer for Cinetix  
Cinetix srl ([www.cinetix.it](http://www.cinetix.it)) is a software development company which has a core business in Telecommunication products and services for Telecom Operators.

My activity was focused on projecting and developing the c/c++ low-level core and embedded part of new MAR-TAe Telecom Italia system and its interface to the J2EE GUI Architecture, the Aim of the project is to consolidate the existing Telecom Architecture for testing Telephone network access and quality monitoring, with about a thousands of remote appliances involved, laying the foundations for future development with the introduction of custom linux-based real time embedded software appliance systems, initially introduced to remote via TCP/IP the original appliances monitor and control.

A brief list of technology item involved:

- C/C++ Development on Linux environment, Oracle Database for the central monitor & control system.

- Multiprocessing and Multithreading: more than ten processes and about a thousand of threads involved and continuously communicating via signals with support of a posix shared memory in the central monitor and control system.

- GTQ (old) Remote appliances: Managing About a thousands of GTQs remote appliances (artificial traffic generators) communicating via serial ISO1745 protocol encapsulated on ssl tcp/ip (it's been necessary to re-write all the low level c language code used to communicate with GTQ to be compliant to the new architecture).

- Windows CE and Windows Mobile: project and develop a part of a measuring system using c/c++ language on Visual Studio 2008 and running on Win CE and Win Mobile, mostly with ARM processor, one part of the project use a PIC.

- Web Interface for Central Monitor and Control System: Java J2EE based (JSF on Apache/Tomcat), Spring Framework, Hibernate, low level communications with c/c++ daemons via Apache Active MQ.

- Real Time Operative System, Linux based, with embedded c application for the (new) appliances initially used as ssl tcp/ip remotizers.

From 17/08/06 to 12/02/10 IT Consultant for Telecom Italia in Padova Data Center.

A brief list of technology item involved:

Web Interface: Java based (BEA Weblogic or Tomcat).

Environment: Unix (HP-UX, True64), Linux (Red Hat Enterprises)

Oracle and Mysql database.

I would evidence that all these activities in Telecom, even in a management role, implies quite a lot of “low level” work such as java and c/c++ code reviewing and correcting, shell/perl scripting, direct sql and PL-SQL script writing or even custom web applications developing and customizing.

From 15/03/06 to 31/12/07 IT Consultant for the Istituto Universitario di Architettura di Venezia

Form 01/04/05 to 31/12/07 Consultant for Istituzione Parco della Laguna

Form 01/09/04 to 31/12/05 IT Consultant for Mthree Satcom s.r.l.

Before 01/03/2004 I was employed full time in various telecommunications companies, at the same time I occasionally collaborated part time with IT Companies, see list of jobs and collaborations:

From 28/08/00 to 29/02/04 Chief Technology Officer (CTO) for Netdish S.P.A...

From 18/10/99 to 25/08/00, I was Responsible for Wireless Cellular Network Quality

From 16/09/96 to 15/10/99 I worked as a Senior Professional for the Cell Planning Departments of TIM (Telecom Italia Mobile S.p.A).

From 07/06/95 to 13/09/96 I was employed as a Wireless Network Specialist for the RF dep. of Omnitel Pronto Italia S.p.A-Zone 2 (today VODAFONE Italy), Piazza Zanellato 6 Padova.

From 01/11/1994 to 06/06/1995 I was employed as a Wireless Radiofrequency Specialist at the Project

Laboratory of Ponti Radio S.R.L. (20, via Rimembranze, Peschiera Borromeo, MI, Italy).

## Courses-Stages

English language certificate awarded on 15.06.1987 with 27 marks out of 30 at the CENTRO DIDATTICO S.A.S., Via Forte Marghera15 Mestre-Venezia, Italy

German Language Course: "Superintensive 2", duration: 2 Weeks, Level: A2  
19-30 January 2015 - Goethe Institut - Sonnenstraße 25, 80331 München

## Languages

Italian: Mother tongue.

English: Fluent, I have been using English language at work for several years, I commonly read news and books, watch movies and TV show in English languages, I am Audible heavy “reader” of English narrated audiobooks. I also had English Speaking Theatre Experiences.

French: Good comprehension, I have been able manage work meetings and I can have a normal common conversation.

German: I successfully attended A1-A2 course at Goethe institute, comprehension of common phrases, able to deal with written conversations.  
Chinese: Very basic, but I could manage many written dialogues in Chinese and translate technical documentation from English to Chinese.  
Danish: Still very limited

## **Interest and Hobbies**

Sports: Martial Arts, bodybuilding, jogging, bike, Scuba diving (Open Water PADI Instructor), Shooting gallery, Snow Boarding and Skiing, Wind Surfing, Sailing, Parachuting.

Hobbies & Cultural Interests: English speaking Theatre, International News, blog listening, and surfing on INTERNET, Theatre, reading articles on Philosophy, psychology and contemporary history, novels. Audiobook heavy “reader” in English language.