

# Pietro M. Picca

## Personal data

**Place of birth:** Turin  
**Date of birth:** August 6<sup>th</sup>, 1973  
**Nationality:** Italian  
**Civil status:** Married



## Qualifications

### Professional goal

I am looking for a job where I can apply, consolidate and enlarge my current knowledge either as database administrator or developer, as well as developer in the web environment. Being a physicist as education, my ideal position would be in the computing area with analytical, logical and mathematical involvement, for instance for scientific application, or in electronic devices' industry.

### Academical education

- *Title:* Degree in Physics
- *Date:* January 22<sup>nd</sup>, 2003
- *Academy:* University of Turin → Faculty of Mathematics, Physics and Natural Sciences → Department of Physics
- *Mark:* 102/110
- *Thesis title:* Development of methods for long time access to DELPHI experiment data

### IT education

- **Geneva, summer 2010:** seminar *Oracle Application Express 3.2 and 4.0*
- **Paris, autumn 2009:** seminar *Oracle Index Internals*
- **Geneva, summer 2007:** seminar *Oracle Database 10g: Administration I and II*, and related certifications (OCA and OCP):



- **Geneva, autumn 2000:** seminar *C++ for Particle Physicists*

### IT profiles

- **Oracle Database Developer**, with a solid knowledge in SQL and PL/SQL (15 year experience)
- **Data Warehousing and Business Intelligence Strategist** (6 year experience)
- **Web Developer**, with a sizable knowledge in PHP and JavaScript (21 year experience)
- **Oracle Database Administrator** (2 year experience)
- **System Administrator**, particularly with respect to Microsoft Windows, Linux and networking (14 year experience)
- **Microsoft Access Advanced Programmer** (24 year experience)

### IT skills at a glance

- Proficiency in:
  - ❖ *Languages:* PHP, JavaScript, SQL, PL/SQL, Microsoft Visual Basic (particularly applied to Microsoft Access modules and Microsoft Excel macros), Microsoft ASP, Microsoft VBS, awk & sed, Unix shell scripting, MS-DOS batch files programming, Microsoft QuickBASIC, Assembly 80x86, HTML, DHTML, XSLT
  - ❖ *Applications:* Oracle Database, Microsoft Office Suite, Microsoft SQL Server, Toad, PL/SQL Developer, Adobe Acrobat, Corel Graphics Suite, Mathematica, VMware Workstation, Symantec Ghost, Mozilla Firefox
  - ❖ *Operating Systems:* Microsoft Windows usage and administration, MS-DOS, Linux/Unix usage and administration, especially Debian, openSUSE, OpenWrt, ZeroShell, and Android, Mac OS X usage
  - ❖ *Specific technologies:* CSS, XML, Ajax, OLAP vs. OLTP, Microsoft ODBC, CGI, Microsoft ActiveX
  - ❖ *General Computer Science:* data warehousing and business intelligence, ETL, backup and recovery procedures, object-oriented programming philosophy, LAN architecture and implementation
  - ❖ *Hardware:* Arduino electronic board, components for personal computers on the market and good experience in the assembly and the solution of relevant problems, networking and broadband equipments
- In course of improving:
  - ❖ *Languages:* C, C++, Microsoft Visual C++, Perl, Python, Java, LabVIEW, Clipper
  - ❖ *Applications:* Microstrategy, Oracle RMAN, Oracle Secure Backup, IBM Tivoli Storage Manager, Apache, Microsoft IIS, Microsoft Exchange, Oracle Application Express, Ruby on Rails, Eclipse, SPSS, Adobe Dreamweaver, Adobe Flash, Adobe ColdFusion, Microsoft FrontPage, PostgreSQL, Lotus Notes
  - ❖ *Specific technologies:* Oracle RAC, SOAP, WDDX, CherryPy, Microsoft ATL COM, Microsoft MFC
  - ❖ *General Computer Science:* programming of the most important graphic cards for personal computers

### Scientific skills

- *Physics:* electronic, optoelectronic and semiconductor devices, Astrophysics and Star Evolution, particles accelerators and detectors, nuclear reactors' working
- *Mathematics:* Real, Vectorial, and Complex Analysis; Linear Algebra; Algebraic, Differential, and Fractal Geometry; Nonlinear and Dynamic Systems; Probability Theory and Statistics

### Languages

- Italian native speaker
- Fluent English, spoken and written
- Good knowledge of French, spoken and written
- Good knowledge of Spanish, spoken and written
- Basic knowledge of Russian

### Further qualifications

- Owner of *Petersoft Computing*, an Italian personal consultancy company
- Driving licence of B type
- Homologation of my graduation for Spain
- Scuba diving licence at elementary level

### Personal skills

Methodic and precise, goal-oriented, well-organized, proactive, creative-minded, team-player

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Pietro M. Picca

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- Hobbies and sports**
- Swimming and scuba diving
  - Reading scientific reviews, such as *Computer Programming* and *Scientific American*
  - Astronomy
  - History and archaeology of ancient civilizations

- References**
- Dr. Alberto Stanchi, on behalf of *Region of Piedmont* → *IRES Piemonte* – Tel. +39 011 666 6410
  - Dr. Francesco Ronchi, on behalf of *Synesthesia S.r.l.* – Tel. +39 011 043 7401
  - Dr. Jean-René Rouet, on behalf of *CNRS* → *CC-IN2P3* – Tel. +33 4 72 69 41 84
  - Dr. José Salt Cairols, on behalf of *CERN* → *DELPHI* – Tel. +34 96 354 3493

- Updates**
- *Last revision:* March 25<sup>th</sup>, 2018
  - *Latest version of this document:* [http://www.petersoft.gr/main/curriculum\\_eng.pdf](http://www.petersoft.gr/main/curriculum_eng.pdf)

## Work experience

### I. Freelancer

My work experience as a freelancer consists of several collaborations which have been frequently overlapping in time, carried out essentially in Turin, yet very often remotely managed. Through the percentage ranges, I point out the rate of activity which has been varying along the way between the lowest and the highest commitment.

01/1999 – present time  
19 years, 3 months  
Geneva and Turin

*Petersoft Computing*

#### **Holder**

- attending needs for various companies, since 1999
- acting in the realm of local networks, software programming, office automation training, and, in particular, database and web development
- having successfully carried out during the years several collaborations and missions listed hereafter, among which two are presently active
- Technical environment: see details for each collaboration

#### **System Administrator**

- administering some workstations needed to remotely work, equipped with Microsoft Windows and Linux Debian
- administering three SOHO networks in Turin and Geneva, along with firewalls and NAT policies
- administering backup, NAS and VPN servers, in order to have active collaborations' data always available in Turin and Geneva, as well as VoIP strategies, in order to be reachable wherever I am through a local telephone number
- Technical environment: Microsoft Windows, Linux Debian, VMWare Workstation, Hummingbird Exceed, networking design and techniques, Microsoft VBS, Microsoft Access, Oracle Database, Oracle RMAN, Oracle Secure Backup, VNC, synchronization tools

I.1. 06/2016 – present time  
1 year, 10 months  
Turin  
20% – 30%

*TNT Italy*

#### **Oracle Data Warehouse Developer**

- implementing new procedures for ETL
- modifying existing scripts, both from database side and from report interface, according to company arising needs
- Technical environment: Oracle Database, SQL, PL/SQL, Unix, ksh, Linux, PHP, Toad, Microsoft Windows, VMware Workstation

I.2. 01/2004 – present time  
14 years, 3 months  
Turin  
20% – 50%

*Region of Piedmont* → *IRES Piemonte* (*Socioeconomic Research Institute of Piedmont*) → *Regional Center for University and Student Support* (01/2018 – present time)

*CoREP* (*Consortium for Research and Continuing Education*) (01/2004 – 12/2017)

#### **Data Warehousing and Business Intelligence Designer**

- fully administering a production server, equipped with Oracle Database 10g and Microsoft Windows 2003 Server, from database installation to, for instance, patch deployment and backup procedures
- developing ETL functions, procedures, packages and triggers to parse, modify, validate and blend data coming from external sources, i.e. the three Piedmont universities' and *EDiSU* (*Regional Institution for the Right of University Study*)'s databases, towards a common server destination
- building a data warehouse
- realizing web reports employing drilling techniques and multidimensional cubes
- publishing documentation related to ETL procedures and to interfacing to external sources
- Technical environment: SQL, PL/SQL, OLAP vs. OLTP, Toad, Oracle Database, Microsoft SQL Server, Microstrategy, Microsoft Windows, Microsoft Excel, Microsoft Access, Microsoft ODBC, Microsoft VBA

#### **Webmaster**

- maintaining website
- publishing documents
- Technical environment: HTML, CSS, JavaScript, Microsoft ASP, Adobe Dreamweaver, Adobe Flash, Adobe Acrobat

I.3. 10/2001 – present time  
16 years, 6 months  
Turin  
10%

*Nivolo Studio*

#### **IT All-rounder**

#### **Network and Windows Administrator**

- developing network infrastructure for this architectural studio
- realizing and maintaining a server, acting as file, print, backup, VPN, VoIP, and proxy server
- administering multiple workstations equipped with Windows-based operating systems with on-demand modality
- Technical environment: Microsoft Windows, networking design and techniques

I.4. 02/2013 – 11/2015  
2 years, 10 months  
Lausanne  
10%

*Interiman Group Services SA*

#### **Office Automation Manager**

- carrying out the analysis, the design, and the development of several procedures for administrative purposes
- producing Microsoft Excel reports based on data coming from different sources, processed through Microsoft Access querying and procedures
- following the projects in complete autonomy and suggesting strategical choices
- Technical environment: Microsoft Excel, Microsoft Access, Microsoft VBA, Microsoft Windows

- I.5. 01/2012 – 04/2015  
3 years, 4 months  
Geneva, Lausanne and Moscow  
30% – 40%
- Synesthesia S.r.l.*  
**International Development Manager**
- extending the business outside Italy, particularly to France, Switzerland and Russia, on the basis of the brand's values
  - strategic consulting, including business plan and sales strategy development
  - representing the company in international exhibitions, scouting for business partnerships and promotion of joint development projects
- I.6. 11/2011 – 06/2014  
1 year, 8 months  
Florence and London  
30% – 40%
- Exclaimer*  
**Technical Support Manager**
- standing as the technical contact for the sales of *Exclaimer* products on the Italian market
  - acting in a joint collaboration with a partner in Florence, which is taking care of the commercial side of the business
  - Technical environment: Microsoft Exchange, Microsoft Outlook, Microsoft Windows
- I.7. 12/2013 – 04/2014  
5 months  
Geneva  
10%
- Codalis SA*  
**Oracle Database Expert**
- tuning databases' performance for this company's customers with on-demand modality
  - administering and enhancing backup strategies
  - Technical environment: Oracle Database, SQL Developer, Microsoft Windows, VMware Workstation
- I.8. 06/2003 – 12/2008  
5 years, 7 months  
Turin  
20% – 80%
- Polytechnic Institute of Turin → CeSIT (Center of Computing and Telematic Systems)*  
**PL/SQL and Web Developer** (01/2004 – 12/2004)
- implementing, improving and consolidating a set of software procedures for administrative purposes inside the academy
  - Technical environment: SQL, PL/SQL, HTML, CSS, JavaScript, Microsoft ASP, PHP, Toad, Oracle Database, Microsoft SQL Server, Microsoft Windows, Microsoft Office, VMware Workstation
- Data Analyst** (06/2003 – 12/2003)
- performing statistical analysis about university students' data, for the *National Committee for the Valuation of University System*
  - Technical environment: SQL, PL/SQL, Toad, Oracle Database, Microsoft Windows, Microsoft SQL Server, Microsoft Office, SPSS
- I.9. 02/2007 – 04/2007  
3 months  
Turin  
40%
- Praxi S.p.A.*  
**Trainer**
- keeping office automation training courses at *Region of Piedmont* on their behalf
  - Technical environment: Microsoft Office, Microsoft Windows
- I.10. 11/2001 – 04/2007  
5 years, 6 months  
Turin  
10%
- Locat S.p.A. → L'Albi S.r.l.*  
**IT All-rounder**  
**Network Designer**
- taking care with on-call modality of IT needs for this company, such as maintaining their systems
  - building a local network
  - suggesting key software and hardware solutions to adopt
  - Technical environment: Microsoft Windows, Microsoft Access, networking design and techniques
- I.11. 07/2006 – 11/2006  
5 months  
Turin  
50%
- ATET S.r.l. (Turin Company for Electronics and Telecommunications)*  
**Database and Web Developer**
- attending the realization and the maintenance of a database interfacing with electronic devices installed on earthmoving machinery, suitable for measuring some physical quantities, such as temperature, pressure, speed, viscosity, etc., as well as to some specific needs, such as video acquisition for similar applications
  - developing related web interface to query and alter stored data
  - Technical environment: HTML, CSS, JavaScript, PHP, PostgreSQL, Microsoft Windows
- I.12. 03/2004 – 12/2005  
1 year, 10 months  
Turin  
50%
- INAF (National Institute for Astrophysics) → Turin Astronomical Observatory → Solar Team*  
**LabVIEW Programmer**
- contributing to the development of UVCS polarimeter's controlling electronic interface (hardware and software) for solar investigation
  - Technical environment: LabVIEW, Samba
- I.13. 06/2002 – 05/2003  
1 year  
Turin  
30%
- Orizzontiblu S.a.s.*  
**Web Designer**
- realizing the website for this travel agency specialized in chartering boats worldwide
  - Technical environment: HTML, CSS, JavaScript, PHP, Microsoft Windows, Microsoft Access, Microsoft FrontPage, Macromedia Dreamweaver, Macromedia Flash
- I.14. 09/1999 – 11/1999  
3 months  
Turin  
40%
- Gruppo SCM S.r.l.*  
**Trainer**
- keeping office automation training courses at *Sadem S.p.A.* on their behalf
  - Technical environment: Microsoft Office, Microsoft Windows
- I.15. 01/1999 – 08/1999  
8 months  
Turin  
40% – 50%
- Man Servizi S.n.c.*  
**Network Operator and Designer**
- building local networks for third-parties and attending to their maintenance
  - Technical environment: networking design and techniques

## II. Employee

- II.1. 05/2010 – 04/2011  
1 year  
Geneva
- International Electrotechnical Commission*  
**IT Project Manager**
- developing and enhancing administrative applications interfacing with underlying databases for the business operations
  - planning data modeling strategies
  - coordinating computing and human resources in order to fulfill requirements and expiries
  - administrating the triplet of databases: development, test and production
  - Technical environment: SQL, PL/SQL, PL/SQL Developer, Toad, Oracle Database, Oracle Application Express, Microsoft Windows, Microsoft Excel, HTML, CSS, JavaScript, Ajax, XML, XSLT, Java inside Oracle Database
- II.2. 08/2009 – 04/2010  
9 months  
Lyon
- CNRS (National Center for Scientific Research) → IN2P3 (National Institute for Nuclear and Particle Physics) → Computational Center*  
**Scientific Storage Engineer**
- developing and improving Oracle procedures, by means of analytical functions and advanced SQL and PL/SQL features
  - tuning database performance and administering a cluster through Oracle Grid Control
  - planning data modeling on Oracle Database
  - optimizing and expanding web interfaces showing customizable trend graphs
  - Technical environment: SQL, PL/SQL, Toad, Oracle Database, HTML, JavaScript, Ajax, CSS, Ruby on Rails, Mac OS X
- II.3. 06/2007 – 07/2009  
2 years, 2 months  
Geneva and Chicago
- CERN (European Organization for Nuclear Research) → CMS experiment, on behalf of University of Milan - Bicocca → Faculty of Mathematics, Physics and Natural Sciences → Department of Physics, and on behalf of Fermilab, Chicago*  
**Oracle Database Administrator and Developer (06/2007 – 07/2009)**
- implementing procedures and triggers acting as database server-side components for monitoring tools used as a dashboard for experiment's databases
  - implementing web interfaces acting as web server-side and client-side components for monitoring tools used as a dashboard
  - contributing to administration in RAC environment
  - assisting users in SQL tuning
  - Technical environment: SQL, PL/SQL, HTML, CSS, JavaScript, XML, PHP, Toad, Oracle Database, Microsoft Office
- Framework Operator (03/2008 – 07/2009)**
- attending the maintenance related to a framework for fetching and caching data from database servers, named **FroNTier**
  - Technical environment: Linux, awk & sed
- II.4. 12/1999 – 10/2001  
1 year, 10 months  
Geneva
- CERN → DELPHI experiment*  
**Web Developer and Webmaster (12/1999 – 10/2001)**
- implementing a news' engine for various research teams
  - remodeling website because of its mutating purposes and contents after LEP accelerator's closure
  - Technical environment: HTML, JavaScript, Perl, Microsoft FrontPage, Microsoft PowerPoint
- C++ Programmer (08/2000 – 10/2001)**
- contributing to classes' design and documentation, as a member of the developing team of an object-oriented software for experiment's analyses, which constituted my final thesis's kernel
  - Technical environment: Linux, C++, Objectivity