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DATA WAREHOUSE ARCHITECT / PROJECT LEADER

*Highly experienced Data Warehouse Architect with thorough knowledge of all design methodologies and in particular of Dimensional Data Modeling. Competent in all stages of the project lifecycle, from business analysis and data modeling to ETL architectures and analytic applications.
Can play one or more roles as Data Warehouse Architect, Data Modeler, Project Leader, Project Manager, sometimes taking direct part in development activities but usually coordinating the work of other people.*

PROFESSIONAL PROFILE

After completing a degree in Electronic Engineering at the renowned Politecnico di Torino, worked for 15 years with companies including Olivetti, Digital Equipment and Ernst & Young as senior programmer, analyst, project leader and project manager, leading projects in a broad range of areas including complex international environments.

In 1996 became an independent consultant and created www.olap.it, which quickly became one of the leading sources for information related to Business Intelligence on the web.

Developed a series of courses on Data Warehouse design and Business Intelligence that constitute a compendium of the best methodologies, using case studies from own experience.

Good balance of technical and management skills, with proven ability to lead complex, globally distributed teams and deliver projects on time and on budget.

PERSONAL DETAILS

Nationality	Italian
Spoken Languages	Italian (mother tongue), English (fluent)

EDUCATION

University	Degree in Electronics Engineering (<i>Politecnico di Torino, leading university for engineers</i>)
High School	Classical Lyceum (<i>mostly Greek, Latin, Literature, Philosophy - Αρεζόο, Italy</i>)

AREAS OF EXPERTISE – MANAGERIAL

- Has been project leader / project manager for more than 20 projects over the course of 25 years, leading teams from 2 to 20 people.
- Extensive knowledge of project management techniques, both traditional (waterfall / Gantt) and new (Agile).
- Wide hands-on experience working with major consulting companies and applying their methodologies.
- Results-oriented, able to focus on priorities and to deal with all company levels

AREAS OF EXPERTISE – TECHNICAL

Data Warehouse Design His Data Warehouse design skills are based on a solid academic background, having studied most of the relevant books from leading authors (Kimball, Inmon, Adamson, Moss, Venerable, Caserta, Biere, Imhoff, Galemme & others). Has also been exposed to design methodologies from companies like Oracle, Ernst & Young and Teradata and has been teaching his own data warehouse design courses to many project teams.

Data Modeling Expert level knowledge of data modeling techniques, both relational and dimensional, coming from academic studies and practical usage in many different

	projects. Especially proficient in dimensional modeling based on the Kimball “Dimensional Bus” architecture
Erwin	Used in many projects, extensive knowledge, last experience 2011
ETL tools	Extensive knowledge of ETL architectures and techniques, coming from hands-on experience in many projects and from studying “The Data Warehouse ETL Toolkit” book (Kimball-Caserta).
Datastage	Used in two projects, moderate knowledge, last experience 2008
Informatica	Used in one project, moderate knowledge, last experience 2006
Pentaho Kettle	Used in one project, moderate knowledge, last experience 2011
SSIS	Used in two projects, moderate knowledge, last experience 2008
Oracle PL/SQL	Used in two projects, extensive knowledge, last experience 2010
Reporting tools	Extensive knowledge of user interface design, designed many reporting applications based on reporting tools and programming languages/libraries, in different areas like operational and management reporting, dashboards, olap, geographic applications
Business Objects	Used in three projects, moderate knowledge, last experience 2008
Oracle OBIEE	Used in one project, moderate knowledge, last experience 2010
Pentaho Report Designer	Used in one project, moderate knowledge, last experience 2011
MS Reporting Services	Used in three projects, good knowledge, last experience 2008
Crystal Reports	Used in two projects, good knowledge, last experience 2004
MS Analysis Server (Olap)	Used in three projects, good knowledge, last experience 2008
Databases	Has been using relational databases for 30 years in all kinds of projects: operational systems and data warehouse applications for banks, industries and government agencies
Oracle	Extensive usage on many different projects (operational and data warehouse) since version 7, last experience 2009 Oracle 11g
Sql Server	Extensive usage on many different projects (operational and data warehouse) since the first version (SQL Server 7), last experience 2008 SQL Server 2005
Teradata	Extensive usage on two major projects (Data Warehouse), last experience 2008 Version 11
MySql	Fairly good usage on two projects (Data Warehouse and operational), last experience 2011 version 5
Access	Extensive usage on many different projects (operational), last experience 2008 version 2007
Informix	Used in many projects since first version (1983), last experience 1994
DB2	Used sporadically, to query and to extract data from legacy databases
Data manipulation languages	
SQL	Extensive usage on many different projects since 1985, last experience 2011
Oracle PL/SQL	Used in two projects, extensive knowledge, last experience 2010
Microsoft T-SQL	Used in two projects, extensive knowledge, last experience 2008
Operating Systems	Has extensive knowledge of both Unix and Windows.
Unix	Extensive usage on many different projects since 1982, including writing device drivers, porting the Unix kernel (Unix version V) on new hardware platforms, teaching Unix internal courses, fine tuning the system for performance, designing and implementing networks and application platforms. Last experience 2010
Linux	Fair knowledge, mostly based on previous experience with Unix systems. Last

	experience 2011
Windows	Extensive usage on many different projects since 1992, including configuring and managing networks and fine tuning the system for performance. Last experience 2011
Dec OpenVms	Extensive usage on one major project involving major changes to the operating system itself. Last experience 1992
General purpose Web Programming	Has used many different languages and programming environments in projects of all kinds:
Office VBA	Extensive usage on many different projects since 1995
C	Used in several projects, expert knowledge. Last experience 1992
Fortran, Cobol, PL/I, Assembler	Older legacy languages, used in several projects and studied at University. Last experience 1986
Web Programming	
Php	Used in several projects, moderate knowledge. Last experience 2011
Javascript	Used in several projects, moderate knowledge. Last experience 2011
Visual Basic .Net	Used in two projects, moderate knowledge. Last experience 2006
Content Management Systems	
Joomla	Used in one project, moderate knowledge, last experience 2011
Liferay	Used in one project, moderate knowledge, last experience 2011
Networking	Has been exposed to many different networks and protocols. Able to configure and use basic networking features in Unix and Windows systems and to debug networking problems

OTHER QUALIFICATIONS / INTERESTS

- Author of numerous articles for primary IT magazines
- Member of European Commission Committees for the evaluation of IT research projects
- Speaker at international conferences
- Member of the Board of Directors of i2u (Italian Unix Users Group)
- Chairman of the Open System Standards SIG (Special Interest Group)
- Owns a vast personal knowledge base consisting of many books and thousands of articles on Data Warehousing. This material has been successfully used under many circumstances as a reference to solve real customers' problems.

PROFESSIONAL EXPERIENCE SUMMARY

1996-Present	Data Warehouse Architect (Independent Consultant) Project manager / architect / data modeller / project leader for primary consulting companies, designing and delivering Data Warehouse / BI systems for clients in both the private and public sectors including Banking, Insurance, Manufacturing. As an independent consultant delivered own Data Warehousing courses to major clients.
1981-1995	Principal Software Engineer / Project Leader (permanent employee) Worked on many software projects as engineer, analyst and project leader with consulting and computer companies: Systems & Management (largest consulting company in Italy), Olivetti, Digital Equipment (U.S. Engineering Headquarters, Nashua, NH), covering relevant roles in Italy and the U.S.

**PROFESSIONAL EXPERIENCE– FIRST PART
1995-PRESENT (FREELANCE CONSULTANT)**

Note: in some cases the dates may overlap because more than one project was carried on in parallel.

2010-2011 **Data Warehouse Architect / Data modeller / Project leader (3 people)**
ISA Srl **Consulting company, leader in information systems for security companies**

Analysis, design of the data model and architecture for a full Corporate Performance Management (CPM) solution to be sold all over Europe to private security and surveillance companies. The solution is based on open source software (Pentaho, Mysql, Palo for Excel) and includes some advanced functionalities, like for example:

- Budgeting and planning based on what-if analysis. This functionality has been implemented using the Olap and write-back features of Palo for Excel
- Multidimensional Profitability analysis (Customer, Office, Service type and others)

Tools: Mysql, Palo for Excel, Pentaho Kettle, Pentaho Report Designer, Liferay (CMS)

2008-2010 **DW Architect / Data modeller / Project leader (4 people)**
INAIL Spa **Government insurance against accidents at the workplace (20.000 employees)**

The initial project goal was to implement a new area of the corporate data warehouse (more than 500 tables occupying 5 TBytes), but after the initial analysis the client accepted my proposal to use this project as a pilot to redesign and expand the data warehouse, moving from a two-layered hub-and-spoke architecture to a one-layered dimensional model (Kimball Dimensional Bus).

The result was a substantial increase in performance, obtained using less disk space and with a much reduced maintenance effort.

Tools: Oracle 10/11, PL/SQL, Oracle OBIEE

2005-2008 **DW Architect / Data modeller / Project leader / Project manager (10 people)**
Poste Italiane **Italian Postal Service (150.000 employees, 14.000 branch offices)**

With full responsibility over a team of 10 people, implemented several projects for the Data Management Division:

- Integrated solution to manage all the metadata produced by the Corporate Data Warehouse. This is one of the largest data warehouses in Europe, running on Teradata with 31 million clients, 600 million transactions per month, more than 400 different data sources and 400 KPIs. The metadata repository was designed so that it could automatically import the metadata from the data warehouse and provide various reports to analyze all aspects of the DW operations. **Tools:** Oracle 10, Php
- Analysis of a few areas of the data warehouse (star schema layer) that were performing poorly. Identification of design flaws and proposal of a new design.
- Support to the data warehouse development team, in particular development of ETL procedures. **Tools:** Datastage 8
- Data cleansing and Master Data Management solution for the customers data. This was a large project (more than 2 years), involving the design of an engine to extract, cleanse and standardize the customers data. **Tools:** Teradata, Datastage 8, Web pages with php and javascript
- Application for the selection of customer data based on different criteria. This is a service that is offered to external clients who are looking for customer large data sets for marketing campaigns. **Tools:** Oracle, php

2008-2009 DW Architect / Analyst / External Consultant

Jordan Ministry of Transport / Dar Al-Handasah Consultants

Feasibility analysis and architectural study for the Data Warehouse of the Jordan Ministry of Transport, integrating data from the road, railway, air and maritime sectors. This study was used to prepare the bid for the international tender, and included a complete analysis of the current situation and of the desired KPI's, plus a proposed dimensional model.

2006-2007 DW Architect / Data Modeller / Project leader (5 people)

Capitalia Spa 4th largest bank in Italy, later acquired by Banca Intesa

Designed and implemented a new subject area of the corporate Data Warehouse, dedicated to loans risk management. The existing data warehouse was based on a classic Hub and Spoke architecture, with a first layer in 3rd normal form and a second layer made of star schemas.

Tools: Teradata, Informatica Powercenter 8, Business Objects XI

2006 DW Architect / Data Modeller / Project leader (3 people)

Molteni Spa Pharmaceutical company

Design and implementation of a Corporate Performance Management solution. The company did not have a data warehouse and top management wanted a system to control all the important processes like budgeting, sales and profitability.

The system provided budgeting functionalities, sales reporting and profitability analysis. Production costs were allocated at the most granular detail, using data coming from Activity Based Costing (ABC).

Tools: SQL Server 2005, Microsoft Integration Services (SSIS) Microsoft reporting services, Microsoft analysis services

2006 DW Architect / Data Modeller / Project leader (3 people)

Eurotranciatura Spa Manufacturing (engine parts, transformers)

Design and implementation of a Corporate Performance Management solution (budgeting, reporting, comparison of budget vs actual, profitability).

Implementation of a data warehouse to support about 100 KPIs, spanning many different areas (examples: production and delivery times, efficiency of sales channels, profitability)

2005 Data Warehouse Consultant

Fiver Spa National reseller of Polythene Pipes

As an external consultant helped the company management in selecting the right software and consulting company for the implementation of the company's data warehouse.

2004-2005 DW Architect / Project leader (4 people)

Aubay research & Technology Data Warehouse for DMC (a direct sales company)

Designed and implemented a data warehouse to be used as a basis for a complete reporting and management solution, which included the following components:

- Extraction of data from the company's operational systems, based on SQL Server 2005
- Analysis of sales data, comparison with data coming from TV campaigns used to calculate campaign productivity
- Budgeting and planning, including intra-period adjustments based on sales projections for the current month. The monthly goals for every area and product were compared to the actual results, integrated with projections on future sales.

Tools: SQL Server 2000, Microsoft reporting services, Microsoft analysis services

2004-2005 Data Warehouse Consultant

Wuerth Spa Multinational, more than 400 companies in 84 Countries

As an external consultant, helped the company Data Warehouse team to re-engineer the data warehouse and design new areas of the data model

2002-2003 Project leader / Analyst / Developer

Key Partners Consulting company

As a member of the board of management, participated to the definition of the company's organization and strategic plans.

As an analyst / developer, worked in the implementation of the company's ERP, covering almost all business processes (Project Management, HRM, resource scheduling).

Tools: SQL Server, Erwin 4.0, Access 2000/VBA, IIS & ASP pages (VBScript and Javascript), XML

2003 Data Warehouse Consultant

S.D.I. SDI (Sistemi Direzionali Integrati)

Helped define the architecture of a Decision Support System for the banking sector, covering many different aspects like Asset liability management, Risk management, client profitability, CRM.

In the second project phase, developed the ETL processes and the olap cube to support the system.

The final product has been installed in several banks by SDI (consulting company specialized in business intelligence systems for the banking sector)

Tools: SQL Server 2000, Analysis Services, VBA, VB.Net, Knosys Proclarity 5.0

2001-2002 DW Architect / Data modeller / Project leader / Project manager (10 people)

Ernst & Young Poste Italiane (Italian Postal Service, 150.000 employees, 14.000 branch offices)

Analysis, design and implementation of the Corporate Data Warehouse. This was the first attempt to consolidate all business intelligence activities under a central data warehouse, the project was sponsored directly by the company C.E.O. and involved a team of 2 analysts / architects/ data modelers, 15 business analysts, 15 ETL developers and 10 report developers.

Working for the main contractor (Ernst & Young) I was one of the two data modelers, who had shared responsibility for the whole project. The project involved analyzing the business processes of all the branches of Poste Italiane (banking, postal service, parcel delivery, online selling and more). After almost two years and the delivery of the first release of the data warehouse the project was stopped because the main business sponsor left the company.

The data warehouse was based on a pure dimensional model (Kimball Dimensional Bus architecture).

Tools: Oracle 8i, Business Objects, Datastage

1996-2003 Information Systems Manager

Chimet Spa European leader in the recovery and refining of precious metals

Working as an external consultant in charge of the entire I.T. strategy and operations for the company, managed several strategic projects, defined the overall technology architecture, selected consulting companies and products to accomplish a general reorganization of the company's systems.

2003-2004: Designed and implemented a prototype for the company's Data Warehouse, which included samples in the sales and finance areas. **Tools:** Database: SQL Server 2000 / Analysis Services. ETL tool: DTS. Reporting tools: Crystal Reports 10 and Proclarity 5.3.

1996-1999: Redesigned the company's IT and networking infrastructure, replacing the existing AS/400 and Bull systems with Unix, Linux and Windows 2000 servers running Exchange 2000, ISA 2000, SQL Server 2000. Designed the architecture that connects the three company's office locations to each other and to the Internet using HDSL lines and a wireless link.

1996-2000: Managed a large application development project, implemented by a third-party company, to completely renew the company's ERP. Chimet has been successfully using the new system for all its critical operations since 1996, and new features have been added every year.

1996-2004: Personally wrote many applications using Visual Basic/SQL Server/Access/VB .Net: management of the manufacturing and shipping process for the company's chemical product lines, automation of the supply chain

1996-1999 **Information Technology subject matter expert**

European **DG 13 (Industry)**
Community

Member of the EEC commission for the selection and evaluation of research projects in the I.T. sector. My role involved studying project proposals, assigning votes and discuss the evaluations with other commission members. Once the projects had started, I was involved in project assessments to evaluate the current state.

1995-1999 **Consultant / analyst / developer**

UnoAerre Spa **world's largest gold jewels manufacturer**

Designed and implemented a Decision Support System based for sales analysis, based on SQL Server 7 and Seagate Crystal Reports. Wrote a Web application using Visual Interdev and ASP to deliver reports via interactive web pages, including user profiling for filtering contents based on user permissions.

Designed and implemented services and applications based on Microsoft BackOffice and other products (system management using Microsoft SMS, network backup, email and Internet access, LAN fax, file and printer sharing, electronic conferences).

Designed and developed a SFA (Sales Force Automation) solution, including an electronic catalog and order processing system on CD-ROM

Tools: Microsoft SQL Server 7.0, Visual Interdev 1.0, Visual basic Scripting, IIS 4.0, Seagate Info 6, Crystal Reports 6, Visual Basic 4.0/ Access 97

1999 **Consultant / analyst / project leader**

CR Città di Castello **Regional bank**

Design and implementation of a system architecture for the Bank's personal computers (about 200 seats). The architecture included user management, system operations (backup, communications) for branch offices, system policies, roaming profiles, application integration (NT Server 4.0, NT workstation 4.0).

Implementation of a standard image for operational workstations. The image was then cloned on 200 PC's, which went live with a staged approach.

Tools: Microsoft NT Server 4.0, NT workstation 4.0

1995-1996 **Consultant / analyst / developer**

Telecom Italia **Italian largest residential and mobile telephone company**

Designed and implemented an application to manage mobile phone contracts at sales points all over Italy.

Tools: Microsoft Visual Basic/Access (client), DEC VMS with RDS database (server)

Designed and implemented an application to manage the assignment of telephone numbers, including special "gold" numbers (mnemonic numbers that are sold at a premium).

Tools: Visual Basic, Oracle 7, Access 97

