

CURRICULUM VITAE



PERSONAL INFORMATION

Name	DI MINGO GIOVANNI
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Citizenship	Italian
Birth Date	01.07.1965

WORKING EXPERIENCE

- Dates (from – to)
 - Clients
 - Company
 - Business area
 - Job
 - Main roles
 - Experience
- MARCH 2012 - NOW**
CHINESE GOVERNMENT
Jilin Animation Institute – Changchun (Jilin, China)
Information Technology
Senior Software Engineer – Technical Leader
- Software Developer (Java EE, Scala, Ruby on Rails)
 - Technical Leader (GNU/Linux, Research, Working standards)
 - Setup of the development infrastructure on GNU/Linux servers (Debian, CentOS, Slackware) by using the following tools: Git, Jenkins, Redmine, Nexus (Maven), Tomcat, Apache web, Bacula (backup).
 - Development of Ruby on Rails management system based on Redmine. The main job was to customize the Redmine system, in order to fit the requirements of the animation production companies. The system was developed and deployed on GNU/Linux machines.
 - Development of a Java system (web application) to manage the production activities of animation companies. The main technologies used are Spring, MyBatis. The database is Oracle. The architecture is RESTful using DHTMLX and AngularJS on the frontend and exchanging JSON data between browser and server. The main tools used are Maven, Jenkins,

• **Achievements**

- Git. The system is composed of many sub-projects. One of them is based on Akka as concurrent and distributed platform, in order to manage the conversion of video and animation files (Maya to WebGL) with high level of parallel computing.
- Research in the field of 3D image technology, including free-glasses display, depth camera, gesture capture.
 - Research in the field of Augmented Reality.
 - Research in the field of Cloud Computing applied to animation and game industry.
 - Studied Reactive Systems through the Typesafe platform (Scala, Akka, Play, Slick).
 - Building a distributed system based on microservices using container cluster, in particular Docker, Vagrant, CoreOS, Kubernetes, Karaf, Cellar.
 - Built a team of 20 software developers from scratch, by interviewing and hiring the team members.
 - Built an advanced software development environment, by using the leading edge technologies and agile programming style.
 - Built an animation production management system, by using Ruby on Rails ecosystem.
 - Built a more advanced animation production management system, by using Java ecosystem.
 - Found ways to create depth images through the use of 3D depth camera.
 - Built a few Augmented Reality demos on smartphone.
 - Designed the architecture for a cloud computing online gaming platform.
 - Improved the technical knowledge on building modern Reactive Systems, by developing some projects which use Scala, Akka, Play, Slick.

• Technologies

Java (Spring, Camel, MyBatis, Akka), Scala (Akka, Play, Slick, WebSockets), Ruby on Rails, Apache Karaf, Docker, Vagrant, CoreOS, Kubernetes, Apache Web Server, Nginx, Tomcat, Jetty, Netty, Oracle DB, Eclipse, Git, Subversion, Maven, Sbt, Redmine, GNU/Linux (Slackware, Debian, Ubuntu, Red Hat, CentOS, Oracle Linux, CoreOS).

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JULY 2010 - FEBRUARY 2012

TELECOM ITALIA (TILAB)

Tecneva - Novara (Italy)

Information Technology

ICT Consultant

Functional Analyst / Software Developer (Java EE, Scala, Python, PHP)

- Development of distributed applications with high level of concurrent processing in the field of machine-to-machine

(M2M). The developed system allows the management of information coming from telematic boxes (Tbox) installed on the vehicles. The Tbox is a hardware device which has GPS, accelerometer and internet connection on board. It gathers vehicle data from the CAN bus and sensors (GPS, accelerometer) and sends them to the server located in a remote data center. The data are stored on a database, processed and sent to the service providers (clients), such as insurance companies, fleet management companies.

- The project uses advanced Java technologies: Camel and ServiceMix.
- Other main frameworks utilized are: Spring, CXF for web services (SOAP) and ActiveMQ for message queues (JMS).

• Technologies

Java (Spring, Camel, ServiceMix, OSGI, XStream, Wicket, Beans, ActiveMQ, JMS, CXF, SOAP, JMX), Scala, Python, HTTP, UDP, Google Protocol Buffers, Apache Web Server, Tomcat, Jetty, Oracle, Eclipse, Subversion, Maven, Trac, Wireshark, GNU/Linux (Slackware, Debian, Red Hat), Internet, Intranet.

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MAY 2010 - JULY 2010

IVECO

Gi Group - Torino (Italy)

Automotive

ICT Consultant

Firmware Developer (C)

- Development of firmware for ECUs of industrial vehicles (IVECO trucks)

C, CAN bus, Eclipse, Subversion.

• Dates (from - to)

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MARCH 2009 - APRIL 2010

BANCA INTESA SAN PAOLO

Technology Reply - Torino (Italy)

Information Technology

ICT Consultant

Functional Analyst / Software Developer (Java EE)

- Development of web applications (intranet and internet) in Java EE for banking services at a big Italian bank. The systems allow the management of financial intermediaries. They are integrated with other bank systems both on mainframes (IBM) and Unix servers. The project utilizes advanced Java

- technologies, especially for the web with the component-based framework Apache Wicket. Other main frameworks used are: Spring, iBATIS (database Oracle), Axis for the web services and JMS for the message queues.
- Technologies
 - Java (Spring, Wicket, Security, Servlet, Beans, iBATIS, JMS, Axis, JMX), Apache Web Server, Weblogic, Tomcat, Jetty, Oracle, Eclipse, Subversion, Maven, Trac, GNU/Linux (Slackware), HP Unix, Internet, Intranet.

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 - NOVEMBER 2007 - MARCH 2009**
FIAT AUTO, IVECO, TELECOM ITALIA (TILAB)
 While 1 - Torino (Italy)
 Information Technology
 ICT Consultant
 Functional Analyst / Software Developer (Java, C#, C++, C)

 - Development of applications in Java and PHP for batch processing of sales data coming from the FIAT dealers and creation of reports for the top management.
 - Development of applications in C++ for interfacing the FIAT automotive diagnostic systems with the new hardware boards (VCI) from Bosch.
 - Development of embedded applications in C# on .NET Compact Framework (WmfA) for performing the remote download of data coming from the digital tachograph installed on the IVECO vehicles. The system is based on a Blue&Me (C3) board computer (WinCE). It receives the command SMS, communicates with a smart card, gathers data from the CAN bus and sends/receives data to the data center through mobile internet.
 - Java (Servlet, JDBC, Beans, Poi), Apache, Tomcat, PHP, Jboss, Oracle, PL/SQL, Eclipse, Visual Source Safe, Subversion, PC/Windows 2000/XP, Blue&Me (Convergence C3), GNU/Linux (Slackware), Internet, Intranet, TCP/IP, SMS, GPRS, Smart Cards.

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 - JANUARY 2007 - OCTOBER 2007**
TELECOM ITALIA (TILAB)
 Technology Reply - Torino (Italy)
 Information Technology
 ICT Consultant
 Functional Analyst / Software Developer (Java EE)

 - Development of web applications in Java EE for telemedicine service of Telecom Italia. The server side is based on the following frameworks: Apache Wicket, Spring, Jade, Hibernate (Oracle database). The client side is based on mobile phones

- Technologies
 - and medical devices with Bluetooth interface.
 - The system is in production at the Molinette hospital of Turin. Java (Servlet, JSP, JDBC, Beans, Hibernate, Wicket, Xstream, Jade), Apache, Tomcat, Jboss, Oracle, Eclipse, Subversion, Trac, GNU/Linux (Slackware, Ubuntu), Solaris, Internet, Intranet, TCP/IP.

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OCTOBER 2006 - DECEMBER 2006

REALE MUTUA ASSICURAZIONI

Enigen - Torino (Italy)

Information Technology

ICT Consultant

Functional Analyst / Software Developer (Java EE)

- Development of Java EE applications for batch processing of data related to insurance companies. The applications extract insurance data from Oracle DB and SQL Server, then they create legacy files (COBOL) to send to financial information systems.

Java (Servlet, JDBC, Beans, EJB), Apache, Tomcat, Jboss, Oracle, SQL Server, Eclipse, Visual Source Safe, PC/Windows 2000/XP, GNU/Linux (Slackware), Unix, Internet, Intranet, TCP/IP.

AUGUST 2005 - SEPTEMBER 2006

BANCA SAN PAOLO

Envir - Torino (Italy)

Information Technology

ICT Consultant

Functional Analyst / Software Developer (Java EE)

- Design and development of a web application in Java EE to publish contents for a big Italian company. The system is based on the following frameworks: Spring (MVC, Security), Hibernate (Oracle DB).
- Setup of a network of thin clients, based on GNU/Linux Gentoo, by using the open source project LTPS (Linux Terminal Services Project).
- Installation and configuration of an open source project management system: Project.Net. The system is based on Java EE, WebLogic application server and Oracle DB.

Java (GUI, Servlet, JSP, JDBC, Beans, Spring Framework, Wicket), Hibernate, HTML, XML, XSLT, Apache, Tomcat, Bea WebLogic, Oracle, Eclipse, MyEclipse, Together, ClearCase, Trac, Subversion, Knowledge Tree, PC/Windows 2000/XP, GNU/Linux (Slackware, Debian, Gentoo, Ubuntu), Thin-client (LTSP), Unix, Internet, Intranet, TCP/IP.

MAY 2005 - JULY 2005

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- BANCA SAN PAOLO**
 PIC Informatica - Torino (Italy)
 Information Technology
 ICT Consultant
 Functional Analyst / Software Developer (Java EE)
- Development of a web application in Java EE to manage the internal invoicing (prices and services) for a big Italian bank. The MVC framework used is Struts and the DB is Oracle.
- Java (GUI, Servlet, JSP, JDBC, Beans, Struts), HTML, Tomcat, Bea WebLogic, Oracle, NetBeans, PC/Windows 2000/XP, Unix, Intranet, TCP/IP.
- Dates (from - to)
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- SEPTEMBER 2004 - APRIL 2005**
SOLTEC KOREA
 Freelance - Ulsan (South Korea) / Torino (Italy)
 Information Technology
 ICT Consultant
 Functional Analyst / Software Developer (Java EE)
 Hardware Developer (microcontrollers AVR, FPGA)
- Java (GUI, Servlet, JSP, JDBC, Beans, Comm, Spring Framework), HTML, Apache, Tomcat, Sun Application Server, NetBeans, PC/Windows 98/2000/XP, GNU/Linux (Mandriva), Internet, Intranet, PLC, TCP/IP, LAN, WLAN.
- Dates (from - to)
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 - Technologies
- SEPTEMBER 1999 - AUGUST 2004**
CLARK MATERIAL HANDLING, KONE
 CARRARO Korea - Ulsan (South Korea)
 Automotive
 ICT Director / CFO / COO
 Functional Analyst / Software Developer (Java)
- Accounting, Administration, Finance, Management Control, Information Tecnology, Production, Quality, Purchasing, Logistics, Human Resources, Customer Care
- Java (GUI, Servlet, JSP, JDBC, Beans), HTML, Tomcat, SQL Server, MS Access, Visual Basic, PC/Windows 98/2000/XP, GNU/Linux, Internet, Intranet, Lotus Notes, uniERP, TCP/IP, LAN, WLAN.
- Dates (from - to)
 - Clients
- JANUARY 1993 - AUGUST 1999**
ALFA ROMEO AVIO, FIAT AVIO, CLARK HURT COMPONENTS, NEW HOLLAND, MANDO MACHINERY, HANDOK, SAMSUNG ELECTRONICS, KIA MOTORS, AMBASCIATA ITALIANA AT SEOUL, FIAT IT

- Company Andersen Consulting (Accenture) – Torino (Italy) / Seoul (South Korea)
 - Business area Information Technology
 - Job IT Consultant
 - Main roles Business Process Reengineering
Functional Analyst / Software Developer
 - Technologies MS Access, Visual Basic, Excel, Word, Powerpoint, PC/DOS/Windows 95/98, Internet, Intranet, Lotus Notes.
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- Dates (from – to) **SEPTEMBER 1992 – DECEMBER 1992**
 - Clients **TELECOM ITALIA**
 - Company CSELT (Telecom Italia LAB) – Torino (Italy)
 - Business area Telecommunications
 - Job Researcher
 - Main roles Researcher on management networks
 - Technologies VAX/Digital, Excel, Word, PC/DOS.
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- Dates (from – to) **FEBRUARY 1987 – MAY 1989**
 - Clients **OLIVETTI**
 - Company SSB – Torino (Italy)
 - Business area Information Technology
 - Job IT Consultant
 - Main roles Software Developer (C)
 - Technologies C, PC/DOS.

EDUCATION

- Dates (from - to) 1985 - 1991
- Name of school and Study area Politecnico di Torino
Electronic Engineering
- Main subjects Hardware / Software / Telecommunications
- Education level University Master degree (106/110)

PERSONAL COMPETENCIES

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

English (good), Chinese (beginner), Korean (beginner)

RELATIONAL CAPACITIES

GOOD CAPACITY OF RELATIONSHIPS WITH OTHER PEOPLE:

- 6 YEARS IN ANDERSEN CONSULTING (ACCENTURE) ON ITALIAN AND INTERNATIONAL PROJECTS
- 8 YEARS IN SOUTH KOREA IN MULTI-CULTURAL ENVIRONMENTS
- 4 YEARS IN CHINA

MANAGEMENT CAPACITIES

GOOD CAPACITY OF COORDINATION AND ADMINISTRATION OF:

- WORK TEAMS FOCUSED ON SPECIFIC PROJECTS
- BUSINESS DEPARTMENTS / BRANCH OFFICE
- BUSINESS FINANCIAL STATEMENTS AND BUDGETS

TECHNICAL CAPACITIES

PROGRAMMING LANGUAGES:

JAVA (SPRING, ACEGI, HIBERNATE, MYBATIS, WICKET, CAMEL, SERVICEMIX, SECURITY, SERVLET, JSP, SWING, JDBC, STRUTS, WEBWORK, ECHO2, XSTREAM, SE, EE, ME), SCALA (AKKA, PLAY, SLICK), C#, C, C++, PHP, PYTHON, RUBY, PASCAL, FORTRAN, CLIPPER, COBOL, PROLOG, VISUAL BASIC, ASSEMBLER, VHDL

APPLICATION SERVER:

BEA WEBLOGIC, APACHE TOMCAT, JETTY, SUN APPLICATION SERVER (GLASSFISH), NETTY

WEB SERVER:

APACHE, NGINX, ABYSS, BOA

DBMS:

ORACLE, MYSQL, POSTGRESQL, DERBY, H2, DEC/RDB, DBASE, MS ACCESS, IBM/DB2, SQLITE

CLOUD ARCHITECTURE:

DOCKER, VAGRANT, CORESOS, KUBERNETES

OPEN SOURCE SOFTWARE:

MEDIAWIKI, LTSP (THIN CLIENT), JOOMLA (CMS)

OFFICE PROGRAMS:

OPENOFFICE, WORD, EXCEL, POWERPOINT, OUTLOOK, PROJECT, LOTUS NOTES

WEB DESIGN/PROGRAMMING:

HTML, XML, XSLT, DREAMWEAVER, FRONTPAGE, ECLIPSE/MYECLIPSE, NETBEANS

ERP SYSTEMS:

UNIERP, SAP

OPERATING SYSTEMS:

GNU/LINUX (SLACKWARE, DEBIAN, UBUNTU, GENTOO, MANDRIVA, CENTOS, RED HAT, ORACLE LINUX, ARCH LINUX, COREOS), FREEBSD, SOLARIS, WINDOWS, DOS, UNIX, VAX/VMS, IBM/MVS

COMPUTER ARCHITECTURES:

PC/INTEL, DEC/VAX, RISC, IBM

HARDWARE PLATFORMS:

PC, POCKET PC (PDA), DEC/VAX, IBM/3090, UNIX WORKSTATION

EMBEDDED SYSTEMS:

AVR/ATMEL, FOX/ACME, OPENMOKO, BLUE&ME (C3), ARDUINO, FPGA (VHDL), ZIGBEE, MSP430, RASPBERRY PI

PROFESSIONAL INTERESTS

- Java, Scala (http://presentz.org/jugtorino/201002_scala)
- Agile programming (Extreme programming, Scrum)
- GNU/Linux, *BSD
- Open source
- Cloud computing
- Mobile computing
- Hardware development (microcontrollers, ZigBee, FPGA)
- Embedded systems development (Arduino, Pandaboard, MSP430, Raspberry Pi)

ASSOCIATIONS

- Java User Group Torino ([JUG](#))
- Scala User Group Italia
- Akka User Group
- GNU/Linux User Group Torino ([GlugTo](#))
- Prometeo (<http://www.prometeolibero.eu/>)
- Arduino User Group
- FOX User Group ([foxboard](#))
- [Alumni Accenture](#)
- OpenMoko (<http://openmoko.org>)

OPEN SOURCE PROJECTS

- Mouse for disabled people ([See&Touch](#))
- Automation via ZigBee ([zAutomation](#))
- Servo motor controller via Web ([Open WebServo](#))
- Controller of electric kiln ([OpenWebEnv](#))
- Child saver ([ChildSaver](#))
- Kaiguan ([Kaiguan Server](#))