

INTERLANDI Matteo

Born on 8th of April 1983

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EDUCATION

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|-------------|---|---------------|
| 2011 – Now | University of Modena and Reggio Emilia | Modena, Italy |
| | Ph.D. student in ICT. I am member of the Database Group.
The first activity I carried out as a Ph.D student is the development of MediaPresenter: a collaborative framework for the creation and management of on-line multimedia presentations. In particular, I developed the back-end of MediaPresenter, called MediaBank. MediaBank contains the whole system business logics as well as the data persistency framework. MediaPresenter is the product of the collaboration between Addiction s.r.l. and the University of Modena and Reggio Emilia.
Currently, I am studying logic programming (in particular a branch of logic programming called Datalog), common knowledge reasoning, and related database/knowledge management systems implementations. Concretely, I am studying how database principles and logic programming can be applied to distributed systems. | |
| 2006 – 2010 | University of Modena and Reggio Emilia | Modena, Italy |
| | Master in Computer Engineering. Score: 104 / 110.
Dissertation title: <i>State management for efficient forwarding strategy in a peer to peer dissemination information service.</i> | |
| 2002 – 2006 | University of Modena and Reggio Emilia | Modena, Italy |
| | Bachelor's in Computer Engineering.
Dissertation title: <i>Fieldbus: description of the CAN/CANopen protocols and their implementation in an I/O device.</i>
Projects accomplished: <ul style="list-style-type: none">- <i>Design and implementation of a VGA interface on Xilinx FPGA</i> within the course of Computer Architecture.- <i>Implementation of a video game in JAVA</i>, for the course of Informatics Fundamentals. | |

WORK EXPERIENCE

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|---|---|---------------|
| 1/2011 – 4/2011
3 months scholarship | University of Padova | Padova, Italy |
| | SOFTWARE DESIGNER AND DEVELOPER
In the context of a project aimed to define a Model Driven Engineering (MDE) methodology and the associated infrastructure suited for the production of high-integrity software systems for use in space applications. In particular I designed and developed a Model to Text (M2T) transformation which, starting from domain specific models, generates AADL (Architecture Analysis and Design Language) code following the TASTE (The Assert Set of Tools for Engineering) specifications. | |

9/2010 – 12/2010
4 months

University of Modena and Reggio Emilia
SOFTWARE DESIGNER AND DEVELOPER

Modena, Italy

Design and develop of a semi-static OLAP framework commissioned by eBilling SpA. In particular I was engaged in the following activities:

- Design of an XML Schema depicting each pivot configuration.
- Design of a meta-language that users can specify in order to create personalized attributes that can be used in pivot configurations.
- Development of a JAVA application ables to translate XML files containing configurations and meta-language expressions in MDX query after that correctness has been proved.

11/2008 – 12/2009
6 months internship
extended to 1 year

Institute for Human and Machine Cognition Pensacola, FL, USA
INTERN RESEARCH ASSOCIATE

Worked on a team focused on the design, implementation and test of a service for the dissemination of information in tactical networks (DisService), sponsored by the US Army Research Lab.

DisService is a peer to peers publish/subscribe system that use an efficient combination of replication and forwarding policies to disseminate information in tactical military wireless networks.

In particular my work was focused on:

- Design and implementation of the WorldState component (thesis main subject)
- Design and implementation of several others functions in DisService and DisServicePro
- DisService / WorldState tests with up to 24 nodes using NistNet and MANE as network emulators
- Creation of JAVA applications for test / demonstration purpose

09/2005 – 12/2005
3 months internship

System Electronics
TRAINEE

Modena, Italy

- Study of the fieldbus protocol Controller-area network (CAN) and its more commonly used higher-level implementation (CANopen - DeviceNet).
- Technical comparison between CANopen and DeviceNet.
- Study of how the CANopen standard is implemented in an I/O device.
- Implementation of a custom Process Data Object (PDO) in the above mentioned device

COMPUTER SKILLS

- **Operating System** Microsoft Windows, MS/DOS, MacOS X, Linux (Ubuntu, Debian and Fedora).
- **Productivity Software** Microsoft Office Suite, Visio, iWork, OpenOffice.
- **Languages** C/C ++(very good), C# (low), Java (very good), SQL (good), MDX (good), XML and XML Schema (very good), EBNF(very good), Shell scripting (good), UML (good), AADL (good), Scala(low), Ruby(low).
- **Development Tools** Eclipse (very good), Netbeans (good), Microsoft Visual Studio (very good).
- **Networking Tools** Wireshark (very good), NistNet (very good), MANE (fair).
- **Database Systems** SQL Server (good), SQLite (good), ORACLE (good), MySQL (very good).
- **Other Tools and Libraries** gdb, valgrind, CVS, VMware, TinyXPath, OpenCV, ant, Maven, Mondrian, JavaCC, JAXB, Hibernate, iText, Acceleo.

OTHER INFORMATIONS

- **Social skills and competence** - Team work: I have been in various types of teams from research teams to soccer teams.
 - Intercultural skills: thanks to my internship at IHMC I have experience of working and also of living with people from all over the world.
 - Communicative skills: at IHMC I have successfully experienced weekly group meetings and a couple of demonstrative meetings with US militaries.
- **Organizational skills and competence** Able to work under stress due to deadlines. I embrace challenging environments.
- **Sports** Swimming and soccer.
- **Hobbies** Cinema, music, physics, technology, traveling.
- **Study vacations** 2002 – 3 weeks in Edinburgh
2003 – 3 weeks in London.
- **Personal Accomplishment** - ESA 2010 YGT (Young Graduate Trainee) program candidate.
 - On December 5-7-12 2011 I presented the seminar “NOSQL principles and systems” during the master course “Database Technology”
 - On-line courses accomplished (statements of accomplishment available under request):
 - 2011 - Introduction to Databases
 - Machine Learning
 - 2012 - Model Thinking
 - Algorithms: Design and Analysis part I
 - Introduction to Logic
 - Software Engineering for SaaS
 - Web Intelligence and Big Data
 - Functional Programming Principles in Scala