

# Emanuele Fianco

COMPUTER ENGINEER

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## Education

### Istituto di Istruzione Superiore Luigi di Savoia

Rieti, Italy

HIGH SCHOOL DIPLOMA IN ACCOUNTING

Sept 2007 - June 2012

- Business economy, Civil right, Commercial law, Private law, Political sciences, Financial sciences

### University of L'Aquila

L'Aquila, Italy

BACHELOR'S DEGREE WITH HONORS IN COMPUTER ENGINEERING

Sept 2012 - Oct 2015

- Good knowledge of math disciplines
- Computer architectures, Operating Systems, Web programming and Object Oriented Programming, Database, Electronic systems, Signal analysis and Signal processing, Theory of Systems and automated control, Telecommunications networks

### University of Cergy-Pontoise / Ensea

Cergy-Pontoise, France

MASTER RECHERCHE SYSTEMÈS INTELLIGENTS ET COMMUNICANTS - INTELLIGENCE ARTIFICIELLE ET ROBOTIQUE

Sept 2016 - Sept 2017

- Digital images processing, Artificial Intelligence, Optimization, Intelligent Systems, Data-mining, Image Indexing, Natural and artificial vision, Robotics and bio inspired control, Adaptive learning

### University of L'Aquila

L'Aquila, Italy

MASTER'S DEGREE IN COMPUTER AND AUTOMATIC ENGINEERING

Sept 2015 - Dec 2017

- Software Engineering, Algorithms Engineering, Interactive systems, Combinatorics and Cryptography, Digital electronic systems, Linear optimization, Responsive Web Design, Advanced telecommunications networks

## Skills

<b>Programming</b>	Java, PHP, C/C++, Python, Javascript, SQL, SPARQL
<b>Mark-up Language</b>	XML, HTML, LaTeX
<b>Modeling Language</b>	UML
<b>Framework</b>	Hibernate, Bootstrap
<b>Development IDE</b>	JetBrains Suite, Eclipse, NetBeans, Sublime Text, Etc
<b>DMBS</b>	MySQL, PostgreSQL, Virtuoso DBMS Engine
<b>Networking</b>	Managing and Maintaining the Servers, PC's, Routers and Switches. Configuring, Managing and Maintaining Networking Equipments Cisco CCNA Routing and Switching certification Part 1: Installing, configuring and administering network technologies
<b>Methodology</b>	Excellent Knowledge in Software Engineering and Design Pattern (GOF Pattern), Agile methodology, RUP, SCRUM. Advanced use of UML with profiling. In-depth knowledge of the main architectural patterns: MVC, MVP, ER, Client-server, Layered.
<b>Operating Systems</b>	Windows, Linux, MacOSx
<b>Languages</b>	Italian (mother tongue), English (B2 level)
<b>Other</b>	Principles of responsive web design

## Project experience

### University of L'Aquila Project

L'Aquila, Italy

IMPLEMENTATION, WITHOUT FRAMEWORK, OF A WEB APPLICATION (POSTIT)

May - July 2015

- Responsible for the server side application

### University of L'Aquila Thesis

L'Aquila, Italy

EMULATED MANET NETWORK SCENARIO WITH EMANE (THESIS)

June - Oct 2015

- Implementation of all emulated scenario
- Experimentation and extraction of interesting parameters like signal power of all nodes, etc.

### University of L'Aquila Project

MAKING AN INTERACTIVE SOCIAL NETWORK FOR ELDERS (EASYFB)

- Realization of an interface customized for the elderly

L'Aquila, Italy

Oct 2015 - Feb 2016

### University of L'Aquila Project

CRYPTOGRAPHY AND CRYPTANALYSIS PROJECT BASED ON RSA ALGORITHM

- Implementation of RSA Algorithm
- Implementation of cryptanalysis algorithm called Wiener's attack

L'Aquila, Italy

Mar - July 2016

### University of L'Aquila Project

MAKING A VIDEO-GAME IN JAVA (TANKWAR)

- Responsible for the client-server interface of the game
- Responsible for server architecture

L'Aquila, Italy

Jan - July 2016

### ENSEA Project

LITERAL TO LITERAL RELATIONS ALIGNMENT MODEL

- Use of Virtuoso DBMS Engine to store all DbPedia and Yago Knowledge bases
- Implementation of relation alignment model in Java through the use of virt-jena library to interact with Virtuoso

Cergy-Pontoise, France

Jan - Mar 2017

### University of L'Aquila Thesis

SHORTEST-PATH ALGORITHMS IN DYNAMIC LARGE-SCALE NETWORKS (THESIS)

- Study of the *Pruned Landmark Labeling* and its dynamic extensions (*incremental* and *decremental* algorithms)
- Implementation of a solution in the case of two consecutive edges removals (*decremental batch*)
- Implementation of an alternative solution for the *decremental* problem that is more suitable as a base to solve the general *decremental batch* problem
- Implementation of an algorithm that is able to handle the case of removal of two random edges in the graph

L'Aquila, Italy

Mar - Dec 2017

## Organizational and management skills

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Problem Solving, Flexible adaptation to new situations, High speed in learning new technologies, Adoption of iterative development techniques, Team working, Great desire to grow professionally.