

Alessandro Grazioli

Curriculum Vitae

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Education

2013–2016 **Ph.D. in Information Technologies**
(Expected) **University of Parma, Italy**

Advisor Prof. Francesco Zanichelli

Tutor Prof. Michele Amoretti

2014 **Italian professional engineering qualification**

2012 **M.Sc. in Computer Engineering**
University of Parma, Italy

Thesis *Design and Development of a System for the Efficient management of Parking Areas in Smart Cities*

Supervisors Prof. Michele Amoretti & Dr. Marco Picone

2005 **B.Sc. in Computer Engineering**
University of Parma, Italy

Thesis *3GPP Technologies for Multimedia Streaming towards Mobile Devices*

Supervisor Prof. Francesco Zanichelli

Courses

2014 VeRoLog Mini School on **Vehicular Routing Problem** *Bologna, Italy*

2013 **Internet of Things and Smart Cities Ph.D. School** *Lerici (SP), Italy*

The aim of the Ph.D. School is to address researchers to the forefront of research activity on Smart Cities & Internet of Things, by presenting state-of-the-art research together with the current and future challenges in building smart cities in an efficient and sustainable way, in order to provide a thorough overview of the main topics about Smart Cities and IoT and their envisioned integration.

2013 Course in **Mobile Development** (Android & iOS) *Parma, Italy*

2013 Course in **Academic Writing** *Parma, Italy*

Experience

Vocational

I have worked with several professionals and businesses. The most recent collaborations are reported in the following.

- Jan – Aug 2014 **IT Consultant**, YourAppFor s.r.l. *Parma, Italy*
Android apps design and development.
- Jul 2012 – Sep 2013 **IT Consultant**, I.S.I. s.r.l. *Piacenza, Italy*
Feasibility study, design and development of a mobile cross-platform (iOS and Android) sales force automation application for the online/offline management of product, customer and salesman information.
- Sep – Nov 2013 **Web Designer & Developer**, G. Bazini Attorney **Parma, Italy**
Design, development and SEO of the law office web site.
- Aug – Dec 2012 **IT Consultant**, Sygest s.r.l. *Parma, Italy*
Feasibility study, design and development of an HTML5, Python and OpenGL-based web application for the 3D visualization of hardware components on mobile devices and browsers.

Educational

- Apr – May 2014 **Teacher**, I.S.I. s.r.l. *Piacenza, Italy*
I have taught the principles of Cross-platform mobile development focusing on Titanium Studio platform.
- Mar – Apr 2015 **Teacher**, CISITA *Parma, Italy*
Jan – Feb 2014
First and second editions of a professional mobile applications development course.

Details I have taught the principles of:

- **Android** programming
- **Cross-platform** programming:
 - Python Overview
 - Web technologies, including HTML5, CSS3, JavaScript and jQuery library
 - PhoneGap and Titanium Studio platforms

Languages

English – Professional working proficiency

Italian – Native proficiency

Portuguese – Professional working proficiency

French – Limited working proficiency

Organizations

I am a member of the following organizations.

IEEE (Institute of Electrical and Electronics Engineers)

- Computer Society
- Robotics & Automation Society

INSTICC (Institute for Systems and Technologies of Information, Control and Communication)

VeRoLog (EURO Working Group on Vehicle Routing and Logistics Optimization)

Research

Activity My research activity focuses on Cloud Computing, Distributed Systems, Mobile Computing, Autonomic Systems, Peer-to-Peer Computing and Smart Cities. I have collaborated with national and international institutions.

Projects I am involved in the development of Networked Autonomic Machine (NAM) framework and of its Java implementation, named **NAM4J**¹. Such a system aims at the convergence between Mobile Cloud Computing and Autonomic Computing. The project is carried on as a collaboration between the Distributed Systems Group of Parma University and the IMT Institute for Advanced Studies of Lucca (Italy).

I am involved in the development of **Sip2Peer**², an open-source SIP-based middleware for the implementation of any peer-to-peer application or overlay without constraints on peer nature (traditional PC or mobile nodes) and specific architecture.

Publications

Journals

- [J1] M. Amoretti, **A. Grazioli**, V. Senni, F. Tiezzi, F. Zanichelli. **A Formalized Framework for Mobile Cloud Computing**. Service Oriented Computing and Applications, ISSN 1863-2394, Ed. Springer, doi: 10.1007/s11761-014-0169-3

Conferences

- [C5] G. Brambilla, **A. Grazioli**, M. Picone, F. Zanichelli, M. Amoretti. **A Cost-Effective Approach to Software-in-the-Loop Simulation of Pervasive Systems and Applications**. International Conference on Pervasive Computing and Communications (PerCom 2014), WiP Session, March 24-28 2014, Budapest, Hungary

¹NAM4J web page: <https://code.google.com/p/nam4j/>

²Sip2Peer web page: <https://code.google.com/p/sip2peer/>

- [C4] M. Amoretti, **A. Grazioli**, V. Senni, F. Tiezzi, F. Zanichelli. ***Towards a Formal Approach to Mobile Cloud Computing***. Formal Approaches to Parallel and Distributed Systems Special Session (4PAD), hosted by the 22nd Euromicro Int.'l Conference on Parallel, distributed and network-based Processing (PDP 2014), February 12-14 2014, Turin, Italy
- [C3] H. Wu, K. Wolter, **A. Grazioli**. ***Cloudlet-based Mobile Offloading Systems: A Performance Analysis***. IFIP WG 7.3 Performance 2013, September 24-26 2013, Wien, Austria
- [C2] **A. Grazioli**, M. Picone, F. Zanichelli, M. Amoretti. ***Code Migration in Mobile Clouds with the NAM4J Middleware***. 2013 International Workshop on Mobile Cloud Computing (mCloud 2013), hosted by the 14th Int.'l Conf. on Mobile Data Management (MDM 2013), June 3-6 2013, Milan, Italy
- [C1] **A. Grazioli**, M. Picone, F. Zanichelli, M. Amoretti. ***Collaborative Mobile Application and Advanced Services for Smart Parking***. First International Workshop on Next-Generation Location-Based Services (LBS n.0), hosted by the 14th Int.'l Conf. on Mobile Data Management (MDM 2013), June 3-6 2013, Milan, Italy

Technical skills

Desktop OS	Professional experience with Linux, Mac OS, Microsoft Windows
Mobile OS	Developer and teacher for Android (native) and Cross-Platform (PhoneGap and Titanium Studio frameworks) applications
Programming	Professional experience with Java, C, C++, HTML, Javascript, CSS, PHP, Python
Web Development	Professional experience with tools such as Node.js, jQuery and Twitter Bootstrap
Graphics	Adobe Creative Suite (Photoshop, Illustrator, Dreamweaver), GNU Image Manipulator Program (Gimp)
Typesetting	Microsoft Office, Apple iWork, L ^A T _E X