

# Alessandro Sivieri

*Curriculum Vitae* last update 03/2014

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## Personal informations

Date of birth June 29, 1985  
Place of birth Rovigo (RO), Italy  
Citizenship Italian

## Current position

03/2014–  
current **Postdoctoral Researcher**, *Politecnico di Milano*, Milano, Italy.  
Smart buildings energy management:

- data acquisition methodologies for HVAC systems and environment (Wireless Sensor Networks, embedded systems, industry-level communication protocols)
- data analysis for buildings behavior prediction.

Teaching assistant.

## Employment history

01/2011– **Ph.D. Student**, *Politecnico di Milano*, Milano, Italy.  
02/2014 Research areas: Distributed Systems, Software Testing.  
Projects:

- Customized version of the Erlang Virtual Machine and framework for distributed embedded application (Erlang, C)
- Javascript testing framework for Web applications using *concolic* execution (Java)
- Wireless Sensor Network for building monitoring (TinyOS).

Teaching assistant.

07/2012– **Developer**, *Centro per lo sviluppo dell'innovazione (CESVIN)*, Cremona, Italy.  
09/2012 Development of an Android app for TEMA Srl GSM/UMTS Gateway  
<https://play.google.com/store/apps/details?id=it.polimi.temasrl>.  
Development of a phone application interfacing with GSM/UMTS gateways.

05/2009– **Developer**, *Google Open Source Programs Office*, Mountain View, CA, USA.  
08/2009 Participation to the program “Google Summer of Code 2009”.  
New ideas for file managers leveraging the concept of *Semantic Desktop*, part of the *Nepomuk* project.

04/2007– **Web developer**, *Politecnico di Milano*, Milano, Italy.  
06/2009 Developer of the university Websites within the Communications and External Relations office.  
Maintenance on existing internally-developed frameworks; research for existing CMS to be used in the next versions of the Web sites.

05/2008– **Web portal maintainer**, *Associazione MeglioMilano*, Milano, Italy.  
12/2008 Maintainer of the Web portal <http://www.sistemauni.it>.  
Maintenance of an existing Web site (Typo3).

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## Teaching activities

- Fall 2013 **Teaching assistant**, *Politecnico di Milano*, Milano, Italy.  
Distributed systems (Graduate level, 5 ECTS).  
Computer science 101 (Undergraduate level, 10 ECTS).  
Design and implementation of mobile applications (Graduate level, 5 ECTS).
- Fall 2012 **Teaching assistant**, *Politecnico di Milano*, Milano, Italy.  
Distributed systems (Graduate level, 5 ECTS).  
Middleware technologies for distributed systems (Graduate level, 5 ECTS).
- Fall 2011 **Teaching assistant**, *Politecnico di Milano*, Milano, Italy.  
Distributed systems (Graduate level, 5 ECTS).  
Middleware technologies for distributed systems (Graduate level, 5 ECTS).
- Fall 2010 **Programming Lab Tutor**, *Politecnico di Milano*, Milano, Italy.  
Computer science 101 (Undergraduate level, 5 ECTS).

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## Education

- 01/2011–  
02/2014 **Ph.D. in Computer Engineering**, *Politecnico di Milano*, Milano, Italy.  
Distributed systems, Wireless sensor networks, software engineering.
- 11/2011–  
02/2012 **Professional engineer qualification**, *Politecnico di Milano*, Milano, Italy.
- 03/2008–  
12/2010 **M.Sc. (Laurea Specialistica DM 509/99) in Computer Engineering**, *Politecnico di Milano*, Milano, Italy.  
Programming languages, software engineering, artificial intelligence and robotics.
- 10/2004–  
03/2008 **B.Sc. (Laurea DM 509/99) in Computer Engineering**, *Politecnico di Milano*, Milano, Italy.  
Programming languages, software engineering, network and Internet protocols, Web development.
- 09/1999–  
06/2004 **Scientific High School Degree**, *Liceo Scientifico "G. Galilei"*, Adria (RO), Italy.  
Specialization in mathematics and computer science.

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## Additional education

- 09/2012 **LASER Summer School - "Innovative languages for software engineering"**, *Isola d'Elba, Italy*.
- 07/2011 **CONET Summer School - "Networked embedded systems - humans in the loop"**, *Bertinoro (FC), Italy*.
- 03/2007 **Athens Intensive Courses - "Computer-aided electronic design"**, *Madrid, Spain*.
- 09/1996–  
06/2003 **Student**, *Conservatorio di Musica "A. Buzzolla"*, Adria (RO), Italy.  
Classical guitar, music theory, chamber music, school chorus.

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## Languages

- Italian **Native**  
English **Fluent**

## Interests

Guitarist, classical and modern music.

## Other informations

IEEE member

## Publications

Alessandro Sivieri. Velux-lab: Monitoring a nearly zero energy building. In *Proceedings of the Fifth Workshop on Real-World Wireless Sensor Networks*, 2013.

G. Alli, L. Baresi, A. Bianchessi, G. Cugola, A. Margara, A. Morzenti, C. Ongini, E. Panigati, M. Rossi, S. Rotondi, S. Savaresi, F.A. Schreiber, A. Sivieri, L. Tanca, and E. Vannutelli Depoli. Green move: towards next generation sustainable smartphone-based vehicle sharing. In *Proceedings of the 2nd IFIP Conference on Sustainable Internet and ICT for Sustainability (SustainIT)*, 2012.

A. Sivieri, L. Mottola, and G. Cugola. Drop the phone and talk to the physical world: Programming the internet of things with erlang. In *Proceedings of the 3rd International Workshop on Software Engineering for Sensor Network Applications (SESENA)*, 2012.

A. Sivieri. Erlang meets wsns: A functional approach to wsn programming. In *Proceedings of the 10th IEEE International Conference on Pervasive Computing and Communications Workshops (PERCOM Workshops)*, 2012.

Alessandro Sivieri, Gianpaolo Cugola, and Carlo Ghezzi. Computational rest meets erlang. In *Proceedings of the 49th international conference on Objects, models, components, patterns (TOOLS)*, 2011.