

Curriculum Vitae

Montanaro Teodoro

Date and place of birth: 15/10/1987, Brindisi

Nationality: Italiana

Email: teoteoteoteo@virgilio.it

B Italian **driving licence**

Website:

www.rosario49.it/teodoro_montanaro

Education

From November 2014 to *October 2017*

Ph.D. in Computer and Control Engineering, Politecnico di Torino

- **Ph.D. title:** Internet of Everything: architectures for the new web of things
- **Status:** Ongoing
- **Tutor:** Prof. Fulvio Corno
- **Funded by:** TIM (tutor: Pino Castrogiovanni)

From March 2011 to March 2014

Master degree in Computer Engineering, Politecnico di Torino

- **Thesis title:** Design and Implementation of WebSocket API for the Dog Gateway
- **Date:** 26/03/2014
- **Vote:** 103/110

From September 2006 to march 2011

Bachelor's Degree in Computer Engineering, Università del Salento (Lecce)

- **Thesis title:** Benchmarking applied to climate models
- **Date:** 14/04/2011
- **Vote:** 100/110

From September 2000 to July 2006

Diploma, Technical Institute "Giovanni Giorgi", Via Amalfi 7, Brindisi.

- **Diploma:** *Industrial expert chief engineer (Perito industriale capotecnico); specialization in in information technology.*
- **Vote:** 100/100.

Professional experiences

Istituto Superiore Mario Boella (Via Pier Carlo Boggio, 61 10138 Torino); From 02/11/2017 - ongoing

- **Type of employment:** *Researcher on Internet of Things Systems and Services*
- **Activities:** *Research, design, development and integration of IoT solutions in different application scenarios and pilots, in a secure, scalable and effective way. Main activities are framed in the context of European initiatives concerning Factory of the Future (FoF) and solutions combining IoT technologies and Cyber-Physical Systems for industrial automation and robotics.*

Augusto DeMarco srl (Corso Umberto I, 90 72100 Brindisi); From 14/05/2014 to 13/10/2014

- **Type of employment:** *Design and implementation of company's management software, website and software for multimedia totem;*

EasySeller (via Villafranca 32 72100 Brindisi (ITALY)); From 1/01/2012 to 30/06/2012

- **Type of employment:** *Website implementation: Online auctions. The aim of users is: guess the price of a product;*
- **It was developed** *using PHP, MySQL, JavaScript and AJAX with PayPal support. The website is not yet accessible, but you can visit it at the following url: <http://www.indovinailprezzo.altervista.org>*

IMPES ENGINEERING S.R.L. (località Leggiadrezze 74100 Taranto); From 1/09/2007 to 31/03/2008

- **Type of employment:** *PDS designer for the project "RUWAIS 3 NGL TRAIN " for "SNAMPROGETTI SPA ";*
- **Impes Engineering is an** *engineering company structured to provide services of engineering, construction, procurement, project control, information technology;*

Skills

Certificates:

- **FCE** certification(Cambridge): June 2014;
- **ECDL** certification (AICA): il 23/02/2004
- **Machine learning** course on Coursera - Statement of Accomplishment: April 2015

Team working: I contributed to the development of innovative solutions working in teams. In most of them, the **Agile approach** was applied. In addition, **Git** was used in all of them as versioning system.

Technical skills:

- Relevant programming languages and scripting languages: **C, C++, Objective-C, Node.js, Python, Java, javafx, OSGi, PHP, MySQL, AJAX, JavaScript**, AngularJS, Python 2, Python 3, Assembler, **bash**, HTML, CSS, SVG, Pascal, Visual Basic, XML, Latex;
- Excellent proficiency in using: **Git**;
- Good ability in developing app for **Android**, Windows Phone;
- Basic knowledge of **machine learning (used tools: Weka, Scikit-learn)**;
- Good knowledge of computer networks and protocols (HTTP, WebSocket, FTP, TCP, IP ...);
- Good knowledge of **OpenCV Library** (used in Qt) and **Point Cloud Library**;
- Basic knowledge of model checkers and formal languages (**NuSMV**)
- Excellent ability to use graphics programs like Adobe Flash, Jash Paint Shop Pro, Adobe Photoshop, The Gimp, **Blender** and **Unity**;
- Good knowledge of Autodesk Autocad;
- Good knowledge of Linux (Ubuntu, Slackware, Mandriva, Raspbian)
- Electronics, development of amateur projects that go beyond the simple theoretical knowledge;

Languages

Italian	Native speaker;
English	Fluent written and oral (B2 -> FCE certificate).

Publications

Note: authors order is alphabetical for university authors, in my research group.

- Corno, Fulvio; Montanaro, Teodoro; Migliore, Carmelo; Castrogiovanni, Pino
“SmartBike: an IoT Crowd Sensing Platform for Monitoring City Air Pollution”. In: INTERNATIONAL JOURNAL OF ELECTRICAL AND COMPUTER ENGINEERING, vol. 7 n. 6. - ISSN 2088-8708
- Corno, Fulvio; De Russis, Luigi; **Montanaro, Teodoro**
XDN: Cross-Device Framework for Custom Notifications Management. In: The 9th ACM SIGCHI Symposium on Engineering Interactive Computing Systems, Lisbon (Portugal), June 26-29, 2017.
- Corno F., De Russis L., **Montanaro T.**, “Estimate User Meaningful Places through Low-Energy Mobile Sensing”, in SMC 2016: IEEE International Conference on Systems, Man, and Cybernetics, Budapest, October 9-12, 2016
- Ghajargar, Maliheh; **Zenezini, Giovanni**; Montanaro, Teodoro (2016)
Home delivery services: innovations and emerging needs. In: 8th IFAC Conference on Manufacturing Modelling, Management and Control MIM 2016, Troyes, France, 28—30 June 2016. pp. 1371-1376
- Corno F., De Russis L., **Montanaro T.**, “A Context and User Aware Smart Notification System”, in IEEE 2nd World Forum on Internet of Things (WF-IoT), Milan, Italy, 14-16 December 2015, pp. 645-651.
- Corno F., De Russis L., **Montanaro T.**, Castrogiovanni P., “IoT Meets Exhibition Areas: a Modular Architecture to Improve Proximity Interactions”, in FiCloud 2015: The 3rd International Conference on Future Internet of Things and Cloud, Roma, 24-26 August, 2015, pp. 293-300
- Montanaro, Teodoro (2015)
SWARM Joint Open Lab Politecnico Di Torino, Italy. In: CROSSROADS, vol. 22 n. 2, pp. 70-71. - ISSN 1528-4972
- Atzeni A.; **Su T.**; Montanaro T. (2014)
Lightweight Formal Verification in Real World, A Case Study. In: WISSE 2014: 4th International Workshop on Information Systems Security Engineering, Thessaloniki (Greece), 17 June 2014. pp. 335-342

Teaching activities

- Teaching assistant
Social Networking: technologies and applications. Cinema and Media Engineering Master’s degree.
Semester-long course covering Social Web theory, design, and Web development (front-end).
Teacher: Laura Farinetti
Institution: Politecnico di Torino
- Teaching assistant
Ambient Intelligence. Elective course for all the Engineering Bachelor’s degree.
Semester-long course covering Ambient Intelligence theory, design process, and rapid

prototyping techniques with contemporary devices (IoT and home automation systems, RaspberryPi, etc.).

Teacher: Fulvio Corno

Institution: Politecnico di Torino

Extra work activities

January 2013

Implementation of apps for **Windows Phone 7** (*Affinity pair, stopwatch and sirens*)

May 2011

- Implementation of a website (www.rosario49.it/multisms) that lets users send free sms to every Italian number simultaneously (developed using PHP, MySQL, JavaScript and AJAX)
- Implementation of an app for **iOS**: iUnisalento

Started in the past and still practiced

- Swimming activities Instructor. Patents owned: Instructor and Lifeguard
- Basketball referee
- Volunteering: Animator and educator in a Salesian Oratory (experience with children and teenagers: organization of events and education)