



Profile

Ph.D. graduated in Computer and Systems Engineering with a passion for technological innovation. His attitude in understanding and satisfying end-user needs allowed him to mature experience in designing and developing multidisciplinary hands-on solutions within both research and industrial context.

In addition, his passion for teaching motivated, and, also guides, the teams that he leads and/or in which he collaborates.

Address: <hidden-for-website> Brindisi - Italy

Alternative Address: <hidden-for-website> - Torino - Italy

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

Phone and Email: please use the Contact form on the website

Personal website: www.teodromontanaro.it

B Italian **driving licence**

LANGUAGES

English: B2 (Fluent written and oral)

Italian: Native speaker

CERTIFICATES

- Preparatory Italian courses to access teaching public competitions: Sep 2018
- **Machine learning** course on Coursera - Statement of Accomplishment: Apr 2015
- **FCE** certification (Cambridge): Jun 2014
- **ECDL** certification (AICA): Feb 2004

PERSONAL SKILLS

- **Project Planning**
- **Collaborative leadership**
- **R&D** (EU-proposal writing, task leading, networking, collaborative development)
- **Problem solving**
- **Product Innovation**

DIGITAL COMPETENCIES

- Relevant **programming languages and technologies:** Java, HTML5, CSS3, AJAX, JavaScript, MySQL, AngularJS, C++, Objective-C, Node.js, JavaFX, OSGi, PHP, Python, Bash, SVG, XML, JSON, MongoDB, Android;
- Relevant used **frameworks:** PHP CodeIgniter, AngularJS, JQuery, Node.js, Jekyll, OSGi Felix, iPOJO;
- Relevant **Version Control Systems:** Git (expert), SVN (basic);
- **Machine Learning** tools: Weka, Scikit-learn;
- **Other tools:** Latex; Android Studio; Nginx, FIWARE tools (Orion Context Broker, Keyrock IdM, PEP Proxy, AuthZForce); Gimp, Blender; Unity3D;
- **Other competences**
 - **Agile SCRUM**
 - Computer Vision: OpenCV Library (used in Qt) and Point Cloud Library



EDUCATION

From November 2014 to October 2017



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

- **Thesis title:** IoT Notifications: from disruption to benefit - Architectures for the future of notifications in the IoT.

From March 2011 to March 2014

Master's degree in computer engineering, Politecnico di Torino

- **Thesis title:** Design and Implementation of WebSocket API for the Dog Gateway.

From September 2006 to March 2011

Bachelor's Degree in Computer Engineering, Università del Salento

- **Thesis title:** Benchmarking applied to climate models.



PROFESSIONAL EXPERIENCES

Links Foundation (previously ISMB) - Via Pier Carlo Boggio, 61, Torino

From November 2017 to ongoing



- **EU Researcher** on Internet of Things Systems and Services. Worked on European projects as task-leader, internal project manager and developer. Active collaboration in writing new proposals, designing shared architectures (in IoT Large-Scale Pilots Programme) and representing the company in several consortium meetings and conferences.



- **Teaching activities:** Teacher in professional courses regarding **IoT** and **Machine Learning** domain.

Politecnico di Torino in collaboration with TIM (previously Telecom Italia) -

Corso Duca degli Abruzzi, 24, Torino

From November 2014 to November 2017



- **Solutions engineer - activity performed within the collaboration with TIM**

Design and development of IoT solutions with the aim of applying Intelligence (i.e., **Machine Learning** techniques) to the **IoT** domain (e.g., IoT notifications).

- **Teaching activities**

Teaching assistant for the courses: a) Ambient Intelligence and b) Social networking.

Augusto De Marco S.R.L. - Corso Umberto I, 90, Brindisi

From May 2014 to October 2014

- **Solutions engineer**

Design and implement custom management software, website and, software for interactive totem.

EasySeller - via Villafranca 32, Brindisi

From January 2012 to June 2012

- **Website designer and developer**

Design and implement a website for online auctions. The aim of users is: guess the price of a product

EXTRA WORK ACTIVITIES

- Development of amateur projects that go beyond the simple theoretical knowledge;
- Implementation of apps for Windows Phone 7 (Affinity pair, *stopwatch and sirens*)
- Implementation of a website (www.rosario49.it/multisms) that lets users send free sms to every Italian number simultaneously (developed by using **PHP, MySQL, JavaScript and AJAX**)
- Implementation of an app for iOS: iUnisalento
- Swimming activities Instructor. Patents owned: Instructor and Lifeguard
- Volunteering: Animator and educator in a Salesian Oratory (experience with children and teenagers: organization of events and education activities)

TEACHING ACTIVITIES

- **Links Foundation (previously ISMB)**
From November 2017 to *ongoing*
 - Professional training courses
- **Politecnico di Torino**
Academic Year 2015/2016 and 2016/2017
 - Teaching assistant for the course: Social networking
 - Teaching assistant for the course: Ambient Intelligence

IMPES ENGINEERING S.R.L. - località Leggiadrezze, Taranto

From September 2007 to March 2008

- **PDS designer for the project “RUWAIS 3 NGL TRAIN” for “SNAMPROGETTI SPA”**
CAD design and engineers’ assistant in projects mainly related to energy production from waste



RESEARCH ACTIVITIES – PUBLICATIONS

Note: authors order is alphabetical for university authors.

- Corno, F and De Russis, L. and Montanaro, T. “**XDN: Cross-Device Framework for Custom Notifications Management**”. In COMPUTING Journal.
- Corno, F and De Russis, L. and Marcelli, A. and Montanaro, T. “**An Unsupervised and Non-Invasive Model for Predicting Network Resource Demands**”. In IEEE Internet of Things Journal.
- Cagliero, L. and De Russis, L. and Farinetti, L and Montanaro, T. “**Improving the effectiveness of SQL learning practice: a data-driven approach**”. In 2018 IEEE 42nd Annual Computer Software and Applications Conference (COMPSAC).
- 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.
- 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
- 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