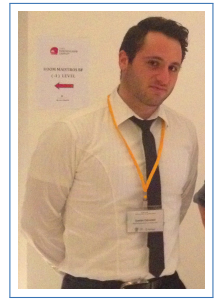


Davide Calvaresi

International Ph.D. Fellow - Curriculum Vitae

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Education

- 2014–Present **International Ph.D. Fellow**, in *Emerging Digital Technologies*, curriculum: **Embedded Systems**.
ReTiS Lab - TeCIP Institute, Scuola Superiore Sant'Anna, Pisa, Italy
- 2011 – 2014 **M.Sc. in Computer and Automation Engineering**, *Univeristà Politecnica delle Marche*, Ancona, Italy,
Italian Mark 105/110.
- Thesis *Requirements Engineering on a Wide Domain: i* Modeling of the Ambient Assisted Living*, Prof. A. F. Dragoni, Prof. Eric Yu & Prof. Arnon Sturm - Computer Science, University of Toronto, Canada.
- 2005 – 2011 **B.Sc. in Computer and Automation Engineering**, *Univeristà Politecnica delle Marche*, Ancona, Italy,
Italian Mark 94/110.
- Thesis *Study of an UPnP standard extension for the semantic description of heterogeneous devices in home automation environment*, Prof. Francesco Piazza & Dr. Michele Nucci - D.I.I., Università Politecnica delle Marche, Ancona, Italy

Work

- 2015–Present **Co Founder & Project Manager**,
Wriggle Solutions s.r.l.s., Innovative Startup, Pisa, Italy.
- 2014–Present **Organizer & Scientific Committee Member**,
"Polo Tecnico - Professionale per Domotica Assistenziale", Regione Marche, Italy.
- 2013 **Freelance Engineer**, *Design and Development of a web based product*, CarbonMill s.n.c., Jesi, Italy.
- 2012 **Freelance Engineer**, *Personalization of a Customer Relationship Management*, STEP s.a.s, Jesi, Italy.

Awards - Honors - Patents

- 14 Feb 2016 **Winner of Global Social Venture Competition 2016: Best ICT Idea Award**,
Project: "SMART Tyre". Competition: "International prize for business ideas with high social and environmental impact".
- 14 Dec 2015 **Winner of EGO Ericsson 2015**,
Project: "SMART Tyre". Competition: "Change makers for a connected society".
- 21 Oct 2015 **Winner of START CUP Toscana 2015**,
Project: "SMART Tyre". Competition: "Best business and high tech ideas.".
- 2 Dec 2015 **Patent Pending**,
SMART Tyre, Request n.: 102015000079497.

Skills

- Technical Web languages, C, C++, Java, Software Engineering, i* Modeling, L^AT_EX, Office, Computer Graphics
Soft Problem Solving, Team-Leading, Team-working, Software Engineering, Business Planning

Certifications & Licenses

- 2015 **High Tech Business Venturing** *Scuola Superiore Sant'Anna & Tuscan Academy*
2015 **Inside ICT & Robotic** *Scuola Superiore Sant'Anna & Tuscan Academy*
2004 **ECDL** *European Computer Driving Licence - level 1*
Driving License - B, A3 *Autovehicle, Motorbike*

Languages

Italian **Native**

English **Professional working proficiency**

C1

Social Engagements

2014-Present **PhD Student Representative in Academic Council**

Scuola Superiore Sant'Anna, Pisa

2003-Present **Blood Donor - AVIS, Volunteer - First Aid**

4-8 Apr 2016 **Volunteer Staff at SAC 2016 Conference: 31st ACM Symposium on Applied Computing** *Pisa*

Hobbies

- Chess, Archery and Aeromodelism

- Knowledge Sharing, Science and Technology

- Running, Swimming, Gym and Hiking

- Cooking, Music, Movies and Operas

Abroad Experiences

July 2015 **Summer School on Health and Wellbeing (HWB)**, *EIT Digital, Philips Research Lab & Holst Center, Eindhoven, Netherlands.*

Focused on assessment, measurement and promotion of mental / physical fitness and well-being. Worked with an international team to develop HWB business models, innovation routes and revenue models

June 2015 **Summer School on Cyber Physical Systems (CPS)**, *EIT ICT Lab & KTH, Stockholm, Sweden.*

Focused on performing in industrial and academia environment CPS applications. Moreover, business coaching was provided throughout the summer school.

2013-2014 **Internship**, *Univeristy of Toronto, Toronto, Canada, Master Thesis .*

Modelization of Ambient Assisted Living Domain using a Goal Oriented Requirement Engineering & *i** modeling lang

Academic Activities

2016 **[Reviewer]**, *Journals: ACM Transactions on Cyber-Physical Systems, Conferences: SAC 2016, RTSS-CPS 2016.*

Nov 2015 **[Lecture] Leap Motion and Real Time**, *TeCIP, Scuola Superiore Sant'Anna,Italy.*
Student Projects

22 Oct 2015 **[Seminar] Distributed Data Service (DDS)**, *TeCIP, Scuola Superiore Sant'Anna,Italy.*
DDS middleware and its applications in the avionics and Assistive fields with emphasis on real-time constraints.

26 Nov 2015 **[Seminar] Introduction to Agent Oriented Paradigm**, *TeCIP, Scuola Superiore Sant'Anna,Italy.*
Agents concept, Multi Agent Paradigm and Software Engineering.

2015 **[Project] Silence MultiMedia**, *TeCIP, Scuola Superiore Sant'Anna,Italy, Team member.*
Distributed embedded system for real time audio streaming with embedded and web management interfaces.

14 Oct 2014 **[Seminar] Requirement Engineering**, *Univpm, Ancona, Italy.*
Goal Oriented Requirement Engineering, Multi Agent Software Engineering and Ambient Assisted Living Modelization.

10 Oct 2014 **[Seminar] Virtual Caregiver, a novel approach**, *Istituto d'Istruzione Superiore E. Fermi, Italy.*
Overview on assistive technologies with emphasis on smart environments for elderly people.

Publications

2016 Cesarini D., **Calvaresi D.**, Farnesi C., Taddei D, Frediani S., Ungerechts B.E., & Hermann T.. *"MEDICATION: an eMbEddeD system for auditory feedback of hand-water InterAcTION while swimming"*, Proceeding of the 11th conference of the International Sports Engineering Association (ISEA 2016), Delft, Netherlands, July 11-14.

2016 Sernani P., **Calvaresi D.**, Calvaresi P., Pierdicca M., Morbidelli E., Dragoni A. F., & Buttazzo G. *"Testing Intelligent Solutions for the Ambient Assisted Living in a Simulator"*, Proceeding of the 9th International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2016), Corfu Island, Greece, June 29 - July 1.

- 2016 **Calvaresi D.**, Sernani P., Marinoni M., Claudi A., Balsini A., Dragoni A. F., & Buttazzo G. "A Framework based on Real-Time OS and Multi-Agents for intelligent autonomous robot competitions", Proceeding of the 11th IEEE International Symposium on Industrial Embedded Systems (SIES 2016), Krakow, Poland, May 23-26.
- 2016 **Calvaresi D.**, Cesarini D., Sernani P., Marinoni M., Dragoni A. F., & Sturm A.. "Exploring the ambient assisted living domain: a systematic review". Journal of Ambient Intelligence and Humanized Computing, 1-19.
- 2015 **Calvaresi D.**, Cesarini D.,Marinoni M., Buonocunto P., Bandinelli S., and Buttazzo G., "Non-intrusive patient monitoring for supporting general practitioners in following diseases evolution", Proceedings of the 3rd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, April 15-17.
- 2015 Cesarini D., **Calvaresi D.**, Marinoni M., Buonocunto P., and Buttazzo G. "Simplifying the use of motor tele-rehabilitation devices for their practical use in non-clinical environments", Proceedings of the 3rd International Work-Conference on Bioinformatics and Biomedical Engineering (IWBBIO 2015), Granada, Spain, April 15-17
- 2014 Calvaresi, P., **Calvaresi, D.**, Sernani, P., Pierdicca, M., Morbidelli E., Accattoli, D., Dragoni, A.F.: "A Virtual Caregiver for the AAL: Testing in a 3D Simulator". In: Workshop of the XIII AI*IA Symposium on Artificial Intelligence (AI*AAL.it 2014).
- 2014 Calvaresi, P., Dragoni, A.F., Pierdicca, M., **Calvaresi, D.**, Sernani, P.: 3D Simulation for Ambient Assisted Living: Interaction through Mobile Application. In: 1st International Conference Recent Trends and Applications in Computer Science and Information Technology (RTA-CIST 2014).
- 2014 **Calvaresi, D.**, Sturm, A., Yu, E., Dragoni, A.F.: "Exploring domain requirements and technology solutions: a goal modeling approach". In: Proceedings of the 7th International iStar Workshop (iStar 2014).
- 2014 **Calvaresi, D.**, Claudi, A., Dragoni, A.F., Yu, E., Accattoli, D., Sernani, P.: "A Goal-Oriented Requirements Engineering Approach for the Ambient Assisted Living Domain". in Proceedings of the the 7th ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2014).
- 2013 **Calvaresi D.**, Sturm A., and Yu E.: "Reconciling System Design Options with Domain and Elicited Requirements - A Goal Modeling Approach". Poster Presentation in Consortium for Software Engineering Research, Fall 2013 Meeting, Markham, Ontario, CA, 2013.

Miscellaneous

- 2013 **[Project] Rabbits and Carrots**, *D.I.I.*, Univpm,Italy, "presentation link", Team Leader.
Intelligent robots competition. Expertise: Real Time scheduling, Artificial Intelligence, Jade, OpenCV.
- 2012 **[Project] Web Application - CVRP**, *D.I.I.*, Univpm, Italy, Teamwork.
Dynamic web Capacity Vehicle Routing Problem solver. Expertise: Operational Research, AMPL, Reg Exp.
- 2012 **[Project] Fault Detection in a wind farm**, *D.I.I.*, Univpm, Italy, Teamwork on:
Fault Predictions and Diagnosis in wind turbines. Expertise: Matlab, Simulink, Neural Network
- 2012 **[Project] Arts, an Android App**, *D.I.I.*, Univpm, Italy, Teamwork.
Mobile app which processing pictures and provide their informations. Expertise: OpenCV, Android, Java.
- 2011 **[Project] Hive - Enterprise application integration** , *D.I.I.*, Univpm, Italy, Team Leader.
Integration of (Kettle, SugarCRM, AlfrescoECM, OpenBravoERP) at web service level and database level.
- 2001–2014 **Fine dining, catering and banquet waiter**, *several restaurants*, Central Italy.
Supervisor, waiter and barman. Several tasks with different responsibility levels.

References

Person	Role	Institute	contact
○ Prof. Giorgio Buttazzo	○ PhD Supervisor	○ SSSA	○ g.buttazzo@sssup.it
○ Prof. Arnon Sturm	○ MSc Advisor	○ UofT	○ sturm@bgu.ac.il
○ Dr. Daniel Cesarini	○ PhD Tutor	○ SSSA	○ d.cesarini@sssup.it