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Summary

With twenty years of experience in computer science, my competences and experiences cover many areas of system and software engineering. My current interests include ICT for social and economic development, software project management, system engineering, and web applications development.

Work Experience

- 2019 – 2021: Senior Research Associate, Rhodes University Onorary appointment as Senior Research Associate in the School of Journalism And Media Studies

- 2019: Member, Provincia autonoma di Trento Member of the exam commission for hiring lab technicians in Schools of the Autonomous Province of Trento

- 2008 – today: Head of Unit, Fondazione Bruno Kessler Head of the ICT4G unit, which focuses on how ICT can foster social and economic development. Clients include CIR-Food, the Italian Food Bank, the World Bank, and Whirlpool; research projects financed by the European Union, the Italian Ministry of Foreign Affairs, and the Autonomous Province of Trento.

- 2018 – today: Senior Research Associate, School of Journalism and Media Studies, Rhodes University Senior Research Associate of the Journalism and Media Studies Department, Rhodes University.

- 2004 – 2008: R2 Researcher, Istituto Ricerca Scientifica e Tecnologica Responsible of the e-Democracy exploratory project, whose goal is using IT to foster new forms of participation to public and political life. Responsible of the ProVotE project, during which we built an eVoting machine used by about 20.000 citizens in different experimentations during elections. The system was used by about 2.000 people in two elections with legal value. In the period 2005-2007 I was responsible of the RCC (Regional Competence Centre) of the Autonomous Province of Trento, which had the goal of promoting the transition of the Public Administration to eGovernment services. In the same period I worked for the eSociety Committee of the Autonomous Province of Trento, that outlined the roadmap for the development of electronic services in Trentino. In the period 2004-2006 I worked on the Indo-Trento agreement (ITPAR), to foster collaboration among Indian and Italian research centres.

- 2003: Self Employed, Consultant on software management methodologies and project manager. Among the clients, the Autonomous Province of Trento, the University of Trento, and IRST.

- 2002: Consultant, University of Trento Consultant for the University of Trento in a project related to the use of UML and to the customisation of Rational Rose for the documentation of the business processes of the University.

- 2001: Consultant, University of Trento Consultant in a project related to testing the SAP system installed at the University of Trento.

- 1997 – 2003: R1 Researcher, Istituto Ricerca Scientifica e Tecnologica Project member and project leader in various technology transfer projects in the safety critical sector.

- 1992 – 1996: Consultant, University of Genoa Consultant in various software development projects, developed in various languages, among which C, Emacs Lisp, Hypercard.

Teaching

- 2021 – 2020: Computational Logic Assistant Professor, Information Engineering and Computer Science, University of Trento

- 2017 – 2018: Advanced Software Engineering Contract Professor, Information and Business Organisation Engineering, University of Trento

- 2011 – 2016: Software Project Management Contract Professor, Information and Business Organisation Engineering, University of Trento

- 2005 – 2009: Software Project Management Contract Professor, Computer Science, University of Trento

- 2004: Software Development: Advanced Topics Contract Professor, Computer Science, University of Trento

- 2000 – 2004: Software Engineering Teaching Assistant, Computer Science, University of Trento

- 1997: Compilers and Translators Teaching Assistant, Computer Science, University of Trento

- 1993 – 1997: ISO-OSI communication layers, C, UNIX, Office automation Instructor, , Hewlett-Packard, ISVOR-FIAT, SOGEA, CONSORZIO GENOVA FORMAZIONE

Projects

- 2020 – 2021: Re-Play, Project Manager REPLAY is a two year EIT Raw Materials action that will deliver new solutions to raise awareness about e-waste and circular economy at large by preparing reusable / adaptable formats on the topic and staging them in science museums and other venues

- 2019 – 2020: EAT Circular, Project Manager and Expert EAT Circular has the goal of training public and private officers on strategies to reduce our "food print", that is, the amount of food we waste.

- 2020: Climathon Junior, Project Manager Organization of the local Junior Climathon. The Climathon was held in Rovereto (progetto Manifattura) and hosted about 100 students from secondary and middle schools in Trentino.

- 2019 – today: AWARE, Trainer Expert and educator in the AWARE project, whose goal is transfering know-how on e-Waste to teachers. In the project I am responsible for the ethics module, which discusses societal and environmental aspects of e-Waste.

- 2018 – today: E-M@S - E-Mining at School, Senior Advisor Senior advisor of a project related to educating about e-Waste. The project reached more than 300 high-school students with seminars related e-waste, among which ethical implications of the improper management of raw materials and used electronics. Schools involved: Artigianelli (Graphic Design, Trento), Pilati (Business Administration, Cles), Rosa Bianca (Scientific Studies, Predazzo), Depero (Arts, Rovereto).

- 2018: Pel di Carota, Senior Advisor Senior advisor of a project related to using IT systems to measure and help reduce food-waste in the food-service sector.

- 2017 – today: HorecAPP, Senior Advisor Senior advisor of HorecAPP, a startup in the HO.RE.CA. sector started up from the experience of BringTheFood.

- 2017 – today: MAKEIT-PAYT, Project Manager Project Manager of the MAKEIT-PAYT project, which has the goal of improving current practices in traceability of door-to-door garbage collection processes.

- 2017 – today: W3C-Italia, Senior Advisor Senior advisor of the W3C Italian Office.

- 2015 – 2016: APP-FACTORY, Project Manager Project run in collaboration with the University of Fort Hare, on topics related to Agile development in ICT4D contexts.

- 2010 – 2014: Maputo Living Lab, Project Manager Implementation of a living lab in Maputo (Mozambique), with the goal of fostering social and economic development in the region. The project was run in collaboration with the Government of Mozambique.

- 2012 – 2014: LRIT4AE: Low Resource Information Tecnologies For Africa and Europe, Project Manager Implementation of a mobility program with Rhodes University, Fort Hare University, and FOKUS, related to the implementation of ICTs projects in rural areas of developing countries.

- 2012: SAMO: Social Accountability in Mozambique, Project Manager Social Accountability experimentation, related to the assessment of the status of primary schools in the rural area of Moamba (Mozambique).

- 2008 – 2009: eGIF4M, Consultant During the project I was part of a team of three which drafted the interoperability plan of the IT systems of the Government of Mozambique. The plan was approved by the Parliament and then moved to the implementation phase, after a significant investment by the World Bank.

- 2008 – 2010: LTPDA - LISA Pathfinder Data Analysis, FBK Project Leader Verification and validation of one of the ground systems of the ESA LISA-Pathfinder mission.

- 2004: ISAAC (Improvement of Safety Activities on Aeronautical Complex systems), FBK Project Leader Project Leader (for the IRST side) of a European project related to the development of systems for integrating design and safety analysis activities. Industrial partners include Alenia Aeronautica, AIRBUS, and Saab.

- 2001 – 2003: ESACS (Enhanced Safety Analysis for Complex Systems), FBK Project Leader Project Leader (for the IRST side) of a European project related to the development of systems for integrating system design and safety analysis activities. Industrial partners include Alenia Aeronautica, AIRBUS, and Saab. The project included the safety assessment of a component of the Eurofighter Typhoon.

- 2002: ExSC2, Project Manager Project Leader of a technology transfer project related to the development of custom tools for automating the development of controllers of industrial conditioning plants. The project involved people from different organisations and geographically distributed (three different locations in two different countries).

- 2000 – 2001: (SC)2-Tool, Project Manager Development of a tool to automatically generate micro-controllers code.

- 1999 – 2000: SSCC, Project Manager Verification and validation of microcontrollers code.

- 1999: RBC-AV, Team Member Technology transfer project related to the development of a safety critical communication system for the railway sector. During the project I spent three months with the client, training engineers on the use of formal techniques on the job.

- 1998 – 1999: Encoder, Team Member Technology transfer project related to the formal verification of Balises, a safety critical systems communicating movement commands to trains. During the project I spent three months with the client, training engineers on the use of formal techniques on the job.

- 1998 – 1999: ETCS Radio, Team Member Formal specification and validation of the Radio Block Center, a safety critical component of the ETCS system (European Train Control System), which sends movement commands to trains.

- 1997 – 1998: SCAP TT, Team Member Technology tranfer project with the goal of formally verifying a critical components of signalling systems in the railway sector.

Other Initiatives

- 2015 – today: Giuria Premio Nazionale Divulgazione Scientifica, Member Member of the Jury assigning the National Prize for Scientific Writing.

- 2013 – 2019: Trento's European Researchers Night, Member of the Scientific Committee Member of the Scientific Committee of the European Researchers Night in Trento.

- 2015: Italian Cooperation in Maputo, Mozambique, Consultant Consultant for the Italian Cooperation in Maputo, to support the reform of the Ministry of Education in Mozambique.

- 2015: Estonian Research Council, Project Reviewer Reviewer of a project proposal for the Estonian Research Council.

- 2014: Italian Cooperation in Maputo, Mozambique, Consultant Consultant for the Italian Cooperation in Maputo, to support the reform of Eduardo Mondlane University.

- 2004 – 2006: , Team Member Member of the ITPAR (Indo-Trento agreement) delegation, whose goal is fostering collaboration among Indian and Italian research centres.

- 2003: Autonomous Province of Trento, Committee Member Member of the eSociety Committee of the Autonomous Province of Trento. The Committee drafted the eSociety development plan for the province.

- 1999: FLoC - Federated Logic Conferences, Workshop Coordinator Coordinator of the FLoC workshops. FLoC brought together the four most important conferences in automated reasoning.

Committees

- ICAT2E, Organizing Committee 2017

- Africomm Conference, Organizing Committee 2009, 2010, 2011, 2012

- SAFECOMP, Organizing Committee 2004, 2005, 2006

Volunteer

- **2018: Teacher, Fikisolo Elementary School** Teacher of the Hour of Code

- **2015 – 2017: Teacher, Liceo Antonio Rosmini** Volunteer teacher of Computer Science in courses delivered to the inmates of Trento's Prison. Topics include Office, the Hour of Code, and introduction to programming with the Logo language.

- **2016: Teacher, Artea and Comunità della Vallagarina** Teacher of the Hour of Code

- **2017: Teacher, Ora del Codice e Cibopoli** Teacher of the Hour of Code and Cibopoli (an educational game to improve eating habits and reduce food waste).

Publications

- Adolfo Villafiorita, **"Introduction to Software Project Management"** CRC Press, 2014

- (as editors) Paolo Costa, Claudio Ferlan and Adolfo Villafiorita, **"Chi Porta da Mangiare, il cibo tra eccessi e scarsità"** FBK Press, 2013

- Adolfo Villafiorita and Marco Bozzano, **"Design and Safety Assessment of Critical Systems"** CRC Press, 2010

Talks

- From a linear to a circular model for economy Live on Zoom, University of Trento (2020-10-28)

- Rifiuti che diventano utili Museo delle Scienz, Trento (2020-10-21)

- EAT-Circular Recorded Material on `https://reducefoodprint.org/eatc` (Set-Oct 2020)

- Cibo, Rifiuti (organici ed elettronici) ed Economia Circolare Recorded Material on `https://sites.google.com/fbk.eu/covidscuola/i-corsi/cibo-rifiuti-ed-economia-circolare` (2020-09-28)

- Il progetto RePlay Festival Sostenibilità ASVIS (2020-09-27)

- Avanzi Popolo Osteria Storica Morelli (2019-11-15)

- Convengo sull'economia circolare FBK, via Santa Croce 77 (2019-11-08)

- Che gusto c'è? Il cibo tra scarsità ed eccessi Festival della Scienza di Genova, 2019 (2019-10-27)

- Intervento su Rifiuti Elettronici Liceo Da Vinci (2019-10-23)

- Seminario IPRASE su Rifiuti Elettronici a Insegnanti Progetto AWARE, FBK (2019-10-03)

- BringTheFood Skill-Sharing Session in Milan on \"Recovery from Food service is possible!\" (2019-10-15)

- Ciclo di Interventi su Rifiuti Elettronici e Economia Circolare Liceo Leonardo Da Vinci, Trento (2019-03-13)

- Intervento su Rifiuti Elettronici e Economia Circolare Scuola Media A. Eccher Dall'eco (2019-03-08)

- Intervento su Rifiuti Elettronici e Economia Circolare Istituto Tecnico Buonnaroti, Trento (2019-05-17)

- Intervento su Rifiuti Elettronici e Economia Circolare Liceo Copernico, Bologna (2019-02-06)

- Tavolo di Lavoro Il FoodTech Sostenibile CIRFOOD Food Innovation District, Milano (2019-04-17)

- Intervento su Rifiuti Elettronici e Economia Circolare (aspetti etici) Licei Fontana e Depero, preso Progetto Manifattura Rovereto (2018-12-04)

- Intervento su Rifiuti Eletronici e Economia Circolare (aspetti etici) Licei Rosa Bianca e Ladina di Fassa, Fassa (2018-12-05)

- Ciclo di Interventi su Rifiuti Elettronici e Economia Circolare Istituto Artigianelli, Trento (2018-11-15)

- BringTheFood Workshop Le Startup dell'Agrifood - Green Logistics Expo, Padova (2018-03-08)

- Informatica per lo Sviluppo Sociale e Economico Internazionalizzare per lo Sviluppo, TCIC, Trento (2017-03-31)

- Bring The Food RICIBO - una rete per trasformare lo spreco in risorsa, Genova (2017-03-15)

- Essere virtuosi a tavola fa bene all'ambiente? MuSE - Museo della Scienza, Trento (2016-11-30)

- Cibo per tutti fra spreco ed un pianeta che cambia Comune di San Michele all'Adige (2016-05-02)

- Quick Development of Webapps in Ruby On Rails ITPMI Webinar (2018-11-06)

- Developing the System Interoperability Plan for the eGov Systems of Mozambique ITPMI Webinar (2016-04-20)

- Managing IT Projects for Social Development ITPMI Webinar (2015-11-17)

- Managing IT Projects in a Developing Country ITPMI Webinar (2015-10-13)

- ICT4G and Technologies Servicing Social Development Sviluppare il Futuro, Fondazione Caritro, via Garibaldi, Trento (2013-05-22)

- BringTheFood Food for Thought, via Santa Croce 77 (2012-12-13)

- BringTheFood, an Application to Reduce Food Waste Green Social Festival - Emilia Romagna una Regione Sostenibile, Palazzo Re Enzo, Bologna (2013-05-03)

- The Mozambique-Trentino Interoperability Framework Euro-Africa week on ICT REsearch and Infrastructure Helsinki (2010-12-08)

- Development and Verification of the Control Logic of an eVoting System: the ProVotE experience ETH, Zurich (2006)

- Transitioning to eVoting: The ProVotE project and the Trentino's Experience IIT, Mumbai (2005)

- Eclipse and Rational Experiences at ITC-irst IBM Technical Briefing, Trento (2003-10-26)

- A tool-bashed methodology for managing the business process documentation of the University of Trento SUM - Scuola di Management, Trento (2003-03-13)

- Capabilities and limits of (digital) critical systems International School on Disarmament and Research on Conflicts, Trento (2002-08-13)

Visits

- **2018: Visiting Scholar, Rhodes University, Grahamstown, South Africa** Visiting scholar of the Computer Science Department of Rhodes University, thanks to FBK's Mobility programme.

- **1995 – 1996: Visiting Scholar, Formal Reasoning Group, Stanford University, Stanford, USA** During my visit to the group directed by John Mc Carthy I worked under the supervision of Richard Weyhrauch and Carolyn Talcott on abstraction and inductive theorem proving.

- **1992: Visiting Scholar, Artificial Intelligence Department, University of Edinburgh, Edinburgh, Scotland** During my visit to the group directed by Alan Bundy's I worked under the supervision of Toby Walsh on abstraction and inductive theorem proving. The visit was (partially) covered by one the first Erasmus grants.

Education

- **1997: PhD, University of Ancona, Ancona, Italy**

- **1993: State Qualification in Engineering, University of Genoa, Genova**

- **1993: Laurea (MSc), Università degli Studi di Genova, Genova**

Languages

- Mother Tongue(s): italian

- Other Language(s):

  - english: excellent
  - german: basic
  - portuguese: basic