CRISTIANO PASSERINI

ABOUT ME

Vision

WORK EXPERIENCE

[01/01/2023 – Current]   **COO DIGITAL INNOVATION HUB – EMILIA ROMAGNA PROJECT**

LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: definition and coordination at enterprise level, and support to the regional initiatives for fast and successful deployment of digital solutions aimed at the Public Structures and SME in the territory of Regione Emilia-Romagna. Support to the DIH-ER Emilia-Romagna Region strategic Committee.
Budget: approx. 1.M€

[01/01/2021 – 31/12/2022]   **CTO EMERGENCY RESPONSE DIVISION**

LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: implementation and management of the European Emergency Number (112) in Regione Emilia-Romagna I preparation, planning, and prediction of emergency situations for the company and for the public stakeholders I planning of the operations for the response team in case of regional emergencies I drafting and managing of procurement contracts I support to the regional Civil Protection in the fields of ICT, emergency radio network, risk modelling I coordination interface towards network operators in case of emergency I legal advisory in the field of the national telecommunications legislation.
Budget: approx. 3.M€

[01/12/2015 – 31/12/2020]   **CTO NETWORK DIVISION**

LEPIDA SPA then LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: planning, deploy, maintenance, development, and monitoring (active and passive) of: • the Geographical and Metropolitan Networks • Wireless Network and Safety (Tetra) Network of the regional Public Sector in Regione Emilia-Romagna | supervision and coordination of the project management activities of implementation, interconnection and delivery of connectivity services (BigInternet, Internet, Intranet, SPC, Tetra) | drafting and managing of procurement contracts for network implementation and management support, either for corporate or company member purposes | legal advisory in the field of the national telecommunications legislation | divisional change manager of the fusion with CUP2000
Budget: approx. 16.M€

[01/01/2012 – 30/04/2013] **CTO SERVICES DIVISION**

LEPIDA SPA   http://www.lepida.it
Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: development, deploy and support of the software jointly used by regional Public Sector entities in Regione Emilia-Romagna: • regional payment platform • regional identity platform • applicative cooperation • TV streaming • video media platform • videoconference platform • sportello delle attività produttive (consolidated business administration office) platform | Divisional change manager of the fusion with LTT
Budget: approx. 2.M€

[01/01/2010 – 30/11/2015] **HEAD OF OPERATIONS AND MAINTENANCE**

LEPIDA SPA   http://www.lepida.it
Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: deployment and operational continuity of the communication network of the whole Public Sector entities of Regione Emilia-Romagna. (Interim from: 01/01/2012 to: 30/04/2013)

[01/10/2006 – 31/12/2009] **SENIOR RESEARCHER**

Fondazione Ugo Bordoni   http://www.fub.it
Address: Rome, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: Research projects coordinator: • frequencies allocation for the National Plan for the Transition to Digital Television.• coordination in the context of the ITU-RRC06 Conference outcome

[01/12/1997 – 30/09/2006]   **RESEARCHER**

Fondazione Ugo Bordoni   http://www.fub.it

Address: Rome, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: support to the Italian Ministry of Communications for the development of the UHF band in Italy | leader of the national group for preparatory work of ITU-RRC06 | leader of the project for the electromagnetic fields data collection and monitoring | developer of routing-layer models to simulate performance, and optimise UMTS networks | developer of the national model for the electromagnetic propagation simulation for the migration to DVB-T and DAB | consultant to the AGCom working group for the drafting of the White Paper on Digital Terrestrial Television

WORK RELATED EXPERIENCE

[2016 – Current]   **LECTURER OF THE COURSE: BIG DATA COMMUNICATIONS**

Università di Bologna   https://www.unibo.it/

Address: Bologna, Italy
Country: Italy
Sector: Education

Main activities and responsibilities: course content: basic networking, network layers, SDN and NFV; Batch vs. Stream processing: time constraints and network design; consumer requirements and network design: the Big Data chain of value; DC topologies, performance and security.

[2020 – 2021]   **LECTURER**

LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: lecturer at "Interactive webinars to accelerate the shift to digital innovation in Albanian health Webinhealth"

[2014 – 2015]   **PROFESSIONAL ADVISOR**

CAIRO NETWORKS

Address: Bologna, Italy
Country: Italy

Main activities and responsibilities: advisor for television broadcasting network planning, procurement, and deployment

[2011 – 2015]   **MEMBER OF "ORGANISMO DI VIGILANZA"**

LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: member of the enterprise body appointed to prevent the rising of situations representing instances of crimes committed by subjects holding top positions, employees or third parties. Processes definitions and auditing

[2013] **RESPONSIBLE FOR TRANSPARENCY AND FOR THE PREVENTION OF CORRUPTION OFFICER**

LEPIDA SCPA   http://www.lepida.net

Address: Bologna, Italy
Country: Italy
Sector: Information and communication

Main activities and responsibilities: To coordinate and implement the Plan for the Prevention of Corruption | to revise all internal procedures/IT applications accordingly | to alert competent authorities if anti-corruption measures are not respected | to verify that rotation systems are adopted when appointing civil servants for activities, where there is a higher risk of corruption offences | to ensure compliance with Legislative Decree 39/2013 on incompatibilities situations with public office.

[2013 – 2014] **SCIENTIFIC ADVISOR: INNOVATIVE PROJECTS IN THE FIELD OF DIGITAL BROADCASTING (REGIONE VENETO, EAFRD 2007-2013)**

REGIONE VENETO

Address: Venezia, Italy
Sector: Public Sector

Main activities and responsibilities: member of the team that evaluated the projects of 15 local broadcasters of the Veneto Region for funding achievement in the innovation in digital television broadcasting field.

[2009 – 2012] **PROFESSIONAL ADVISOR OF REGIONE MARCHE AND REGIONE VENETO**

REGIONE VENETO / REGIONE MARCHE

Address: Italy
Sector: Public Sector

Main activities and responsibilities: analysis of the regional digital broadcasting scenarios following the switch-off of analogue television broadcasting | prediction of and preparation to critical switch-off scenarios

[2007] **NATIONAL REPRESENTATIVE AT THE ITU WRC-07**

ITALIAN MINISTRY OF COMMUNICATIONS

Address: Italy
Sector: Public Sector

[2004 – 2006]	**NATIONAL REPRESENTATIVE AT THE ITU RRC-04-06**

ITALIAN MINISTRY OF COMMUNICATIONS

Address: Italy
Sector: Public Sector

[2004 – 2007]	**NATIONAL REPRESENTATIVE AT THE CEPT ECC-TG4**

ITALIAN MINISTRY OF COMMUNICATIONS

Address: Italy
Sector: Public Sector

EDUCATION AND TRAINING

[1993 – 1997]	**DOTTORATO DI RICERCA IN INGEGNERIA ELETTRONICA ED INFORMATICA**

Università degli Studi di Bologna
Level in EQF: EQF level 8

[1987 – 1992]	**LAUREA IN INGEGNERIA ELETTRONICA**

Università degli Studi di Bologna
Level in EQF: EQF level 7

[1982 – 1987]	**DIPLOMA DI MATURITÀ SCIENTIFICA**

Liceo Righi di Bologna
Level in EQF: EQF level 5

LANGUAGE SKILLS

Mother tongue(s): Italian

Other Language(s) **ENGLISH**

LISTENING C2 READING C2 WRITING C2
SPOKEN PRODUCTION C2 SPOKEN INTERACTION C2

FRENCH

LISTENING B1 READING B2 WRITING A2
SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

GERMAN

LISTENING B1 READING B1 WRITING A1

SPOKEN PRODUCTION A2 SPOKEN INTERACTION A2

PORTUGUESE, SPANISH

LISTENING A2 READING B1

DIGITAL SKILLS

SOFTWARE

Microsoft Word | Microsoft Excel | Zoom | Social Media | Gmail | Microsoft Powerpoint | Google Docs | Google Drive | Facebook | Internet user | Skype | LinkedIn | WhatsApp

MODELING AND DATA MANAGEMENT

Fortran | C | Perl | Python | Numpy | Pandas | Pymc3 | Arviz | Mysql,Sqlite | Solr | Elk | Seaborn | Flourish

SOFT SKILL

Strategic Planning | Conflict resolution | Presenting | Decision-making | Team-work oriented | Research and analytical skills | Responsibility | leadership | Excellent organizational planning and solving problems in short time | Presentation and negotiation skills | Data analysis

PERSONAL SKILL

Creativity | Flexibility | Good listener and communicator | Critical thinking | Motivated | Excellent writing and verbal communication skills | Empathic listener | Good at being proactive and efficient in high stress situations | integrity

NETWORKS AND MEMBERSHIP

[12/1992 – Current   **ORDINE DEGLI INGEGNERI DI COSENZA**

[01/2014 – Current]   **IEEE**

IEEE Broadcast Technology Society
IEEE Communications Society
Big Data Community
Future Networks Community

[10/2016 – Current]   **ISACA**

Venice Chapter: Professional Member

[01/2020 – Current]   AXELOS

CERTIFICATES AND CERTIFICATIONS

[2019]   COBIT FOUNDATIONS
[2020 – Current]   ITIL V4
[2020 – Current]   ISACA CGEIT
[2020 – Current]   ISACA CDPSE
[2022 – Current]   ITIL STRATEGIC LEADER

CURRENT PROJECTS

[03/2023 – Current]   ITU – CPM 23-2 AND ITU WRC 23 NATIONAL DELEGATE

Italian National delegate both to the second Conference Preparatory Meeting of the International Telecommunication Union and to the 2023 World Radiocommunication Conference

[12/2022 – Current]   EUROPEAN DIGITAL INNOVATION HUB ER2DIGIT

To provide support to the implementation of advanced digital innovation in Public Sector Organizations (PSOs) and SMEs in the fields of AI, IoT, data-driven processes and privacy and security practices

[10/2022 – Current]   IEEE FUTURE NETWORKS INITIATIVE – PUBLIC SAFETY TECHNOLOGIES COMMUNICATIONS AND NETWORKING COMMITTEE

Contribution to the 2023 White Paper on the standardization of "Serious Games" as a homogenizing process to increase the preparedness of Critical Infrastructures and First Responders radio network during a crisis event

[07/2021 – Current]   HORIZON 2020 PRECINCT

Preparedness and Resilience Enforcement for Critical INfrastructure Cascading Cyberphysical Threats aims to connect private and public CI stakeholders in a geographical area to a common cyber-physical security management approach which will yield a protected territory for citizens and infrastructures, a 'PRECINCT' that can be replicated efficiently for a safer Europe.
The participation to the project is aimed at the activation of a living lab for studies on resiliency in the case of multiple concurrent failures in space and in time.

[10/2020 – Current]   CEPT/ECC PT1

Participation to the Project Team 1 within SWG (Study Working Group) ITU WRC-23 AI 9 on Article 21.5. Participation in PT1 is aimed at understanding the general impact of the modification of Article 21.5 with respect to the assumption to be

made on adaptive antenna systems.

[10/2020 – Current]   CEPT/ECC CPG-PTD

Participation to the Project Team D on ITU WRC-23 agenda item 1.5 on UHF Review

PTD is tasked with the preparation of WRC-23 agenda item 1.5 to review the spectrum use and spectrum needs of existing services in the frequency band 470-960 MHz in Region 1 and consider possible regulatory actions in the frequency band 470-694 MHz in Region 1 on the basis of the review in accordance with Resolution 235 (WRC-15).

PUBLICATIONS

[2023]   Rescuing Lost Souls at Sea: Marconi's Pivotal Role in the Birth of Public Protection and Disaster Relief
To be presented at IEEE HISTELCON 2023, Florence 7-9 September 2023

[2023]   AI Systems Training Pause Sought
To appear in ISACA Industry News, https://www.isaca.org/resources/news-and-trends/industry-news

[2023]   Coordination in serious games scenarios leveraging on inhomogeneous Public Safety Networks,
To appear IEEE Future Directions Committee Public Safety Technology Task Force White Paper

[2013]   Benefits of Cooperation in Multiplayer Coupon Collectors' Games,
Reference: International Journal of Adaptive, Resilient and Autonomic Systems archive Volume 4 Issue 4

[2013]   Theoretic Bounds to Information Transmission Through Electrical Circuits
Reference: IEEE Transactions on Circuits and Systems I: Regular Papers, vol.60, no.9

[2012]   Markov Modeling of Cooperative Multiplayer Coupon Collectors' Problems
Reference: arXiv:0912.2523v1

[2004]   Modeling of orthogonality factor using ray-tracing predictions
Reference: IEEE Transactions on Wireless Communications, vol.3, no.6

[2002]   Asymptotic performance of ray tracing simulators
Reference: Electronics Letters, vol.38, no.4

[2001]   Wide-band measurement and ray-tracing simulation of the 1900-MHz indoor propagation channel: comparison criteria and results
Reference: IEEE Transactions on Antennas and Propagation, vol.49, no.7

[2001]   Correlation between delay-spread and orthogonality factor in urban environments
Reference: Electronics Letters , vol.37, no.6

[2001]   A quality measure for ray-tracing algorithms
Reference: IEEE Transactions on Antennas and Propagation, vol.49, no.3

RECENT CONFERENCES AND SEMINARS

[27/10/2023]   EDIH Working Group
               AI4PA in the Regione Emilia-Romagna EDIH
               Speaker

[29/09/2023]   Smart Life Festival
               Internet of Things and Data Driven Governance
               Speaker (in Italian)

[14/09/2023]   PRECINCT Final Workshop
               Perspectives for the Development of the Critical Infrastructures Coordination
               Centers in EU legislation
               Speaker (in Italian)

[08/06/2023]   Emilia-Romagna Research to Business Initiative
               AI for the PSOs
               Speaker

[16/05/2023]   PRECINCT Conference
               The Enterprise Architecture Approach for the Development of the Critical
               Infrastructures Coordination Center
               Speaker

[22/11/2022]   PRECINCT Dissemination Workshop
               Standardization perspectives of the project
               Speaker

[02/2022 – 08/2022]   Lepida networking for the school sector
               Practices and tools to plan and build networking infrastructure
               Speaker (in Italian)

[17/11/2020]   Theory and planning of mobile networks based on network slicing
               Fields measures, electromagnatic pollution and mobile network development
               Speaker (in Italian)

[17/02/2023 – 17/03/2023]	Introductory course to the new Italian PSO Procurement Regulation Ordine degli Ingegneri di Cosenza (in Italian)
[11/08/2022]	AI for Cybersecurity and Real World Data Races in Go Lang ACM Baltimore Chapter Third Seminar,
[04/07/2022]	Making it stick SFIA User Seminar on use of procedural skill selection in public sector
[21/06/2022]	CIS Risk Assessment Method (RAM) for Implementation Group 3 (IG3) Center for Internet Security
[12/05/2022]	AI AS A TOOL FOR INNOVATION IN MEDICAL DEVICES Ordine degli Ingegneri della Provincia di Bologna
14/07/2022	Making it stick SFIA User Seminar on gaining and maintaining momentum on procedural skill selection
[31/01/2022 – 02/02/2022]	Open Standards and Platforms for Operationalizing COP26 Data Science Day and Workshop The Open Group yearly event
[08/12/2021]	IEEE Public Safety Technology Roundtable Forum Emerging Public Safety Technologies

VOLUNTEERING

[2009 – Current]

DRIVING LICENCE

Motorbikes: A

Cars: B