CAREER SUMMARY AND OBJECTIVES	CONTACTS

- *Innovation Technologist, Blockchain Expert, and Senior Researcher.*
- *About 15 years' experience in European project management and execution. Fundraising and business development activities aimed at fostering research and innovation in cooperation with academy, industry, and SMEs.*
- *Seconded National Expert Evaluator at the European Commission and Blockchain Expert at StandICT.eu*
- *Liaison with European and international bodies and associations (BDVA, ERTICO ITS, AIOTI, EIC, ION GNSS).*
- *Blockchain technical leader and contents author for OverTheBlock.io*
- *Ideation of Proofs-of-Concept (PoC) leveraging on distributed ledger technologies, cloud computing, location-based services, and artificial intelligence*

Alfredo Favenza

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WORK EXPERIENCE

Since 2019 > LINKS Foundation - Business Model Innovation Dept > Innovation Technologist, Blockchain Expert, Project Manager
Innovation and project management.
Blockchain technical team leadership. Proof-of-Concept (PoC) ideas generation.
Fundraising and grant proposal preparation, including budget and financial aspects.
Liaison with European organizations and public institutions.
Dissemination and exploitation of research outcomes.

Since 2018 > European Commission > Seconded National Expert
Project proposals evaluation for H2020 EIC-FTI (Fast-Track-to-Innovation)

Since 2018 > StandICT.eu > Seconded National Expert (Blockchain)
ICT Standard Proposals Evaluation

2013 – 2018 > ISMB - Mobile Solutions Dept. > Senior Researcher, Project Manager
Research project management and technical activities coordination.
Business development, definition of research area strategy and preparation of project proposals for European and National funding.
2010 – 2013 > ISMB - Navigation Technologies Dept. > Researcher
Industrial and research projects development in the field of GNSS, with a particular focus on Galileo, Augmentation and Software Defined Radio technologies.
2007 – 2010 > ISMB – Applied Banking Technologies Dept. > Researcher
Technological scouting, feasibility studies and proof of concept development with a particular focus on NFC and social computing technologies.

Gen. 2007 – Jun. 2007 > Telecom Italia Lab (TILab) > Intern
Media services software development.

Nov. 2005 – Nov. 2006 > While 1 s.r.l > Consultant
Software analysis and development

Aug 2003 – Dec 2003 > Centro Ricerche e Innovazione Tecnologica RAI (CRIT) > Intern
Design and development of a multimedia application for receiving and decoding files transmitted on unidirectional digital channels (DVB-T).

2018 > PMI-PMP ® Certification Course

2015 > BIGDIVE 4th Edition - Full-stack Data Science Training

2003 - 2007 > M.Sc. in Computer Science, 107/110, Università di Torino.

2000 - 2003 > B.Sc. in Computer Science, 102/110, Università di Torino.

Languages | **Italian** (mother tongue), **English** – IELTS certification (Full professional proficiency)

Technical Skills | C, Python, R, Solidity, Javascript, Microsoft Azure.
Microsoft Project, Microsoft Office, Microsoft Visio.
Technical and scientific writing.

PROJECTS

MEDIAVERSE
H2020

A decentralized network for intelligent, automated, & accessible digital asset management systems
Objectives: design and development of a decentralized social media platform for content creation, distribution, and automatic copyright management.
> Innovation Manager, exploitation, and blockchain expert

CO3
H2020

Digital Disruptive Technologies to Co-create-produce-manage Open Public Services with Citizens.
Objectives: design and development of an open toolkit to support citizens in co-creating-producing-managing public service and commons leveraging on Blockchain, social voting, and AR.
> Team Lead of Work Package 1 "Process design & model definition for PA/Citizens collaboration"

INTELLEGO
Industrial

Quantitative and qualitative analysis of big data in education.
Objectives: valorization of big data from the National Education Evaluation Platform (MIUR) applying Data Analytics to evaluate the performances of the Italian education system.
> Technical project manager.

OptiTruck
H2020

Optimal fuel consumption with Predictive PowerTrain control and calibration for intelligent Truck.
Objectives: design and development of a global optimizer for effective powertrain management, leveraging big data related to road topography, weather conditions, and surrounding vehicles.
> Team Leader of Work Package 3 "Architecture and System Design"

MUV
H2020

Mobility Urban Values.
Objectives: Increase the citizen awareness of the quality of the urban environment leveraging crowdsourcing, big data, and cloud computing technologies
> Team leader of cloud architecture design and development.

I-REACT
H2020

Improving Resilience to Emergencies through Advanced Cyber Technologies.
Objectives: increase the resilience of citizens and assets to natural disasters using crowdsourcing data, geospatial data, and social network sentiment analysis
> Project management and coordination. Privacy and Security Manager.

GHOST
H2020

Galileo EnHancement as BoOster of the Smart CiTies.
Objectives: design and validation of a GALILEO-based intelligent system for public vehicles and new cross-functional applications for city infrastructure maintenance.
> Leader of Work Package "Needs analysis & system requirements"

FLOODIS
FP7

Floods management and forecast service.
Objectives: design and development of cloud-based services for the management of geo-located data
in case of floods emergency
> Project management and coordination.

GAIN
FP7

GAlileo for INteractive driving.
Objectives:

> *Supervision of technical activities. Analysis and validation of GNSS solutions for road applications.*

iDea
Regional

Innovative Diesel Engine Application.
Objectives: Design and development of an innovative Diesel Engine compliant with future CO_2 emission regulations and which could be integrated with a multi-modal hybrid architecture
> *Coordination of technical activities. User needs and requirements analysis and architectural design of cloud-based service.*

PROSA
Industrial

Professional Software Receiver for Secure Application.
Objectives: GPS/Galileo Software Receivers design and development for space and military industry.
> *GNSS Signal processing algorithms design, development, and simulation.*

SMAT-F2
Regional

Advanced technologies for land monitoring.
Objectives: Monitoring and control of urban, traffic, crops, pollution, and also emergencies like floods, fires, and landslides by the use of the Unmanned Aerial Vehicles (UAVs)
> *Data collection system development.*

SENECA
Industrial

Ground-Based Augmentation Systems
Objectives: *Development of software for the management of a connection to a GBAS system.*
> *Signal processing algorithms development*

ROSA-ROSSA
Italian Space Agency

Radio Occultation data processing using a distributed architecture based on Grid Computing
Objective: increase the knowledge of climate change through the uses of radio occultation techniques to perform the vertical profile of atmospheric temperature, pressure, and humidity.
> *Satellite data management platform development*

RELEVANT ARTICLES & CONFERENCES

« *Blockchain for COVID-19 contact tracing and vaccine: a systematic review.* » (2021, IEEE Open Access)

« *Towards a More Transparent and Trustworthy AI.* » (2021, Medium.com)

« *12 Areas of Convergence in Which Blockchain Can Foster Better AI.* » (2021, Medium.com)

« *ReClothes: A Decentralized Solution for Second-hand Clothes Recycles in the Fashion Industry* » (2021, Medium.com)

« *Exponential Technologies Convergence: Can AI help Shaping a New Breed of DLTs?* » (2020, Medium.com)

« *Blockchain and the governance of pandemics.* » (2020, Medium.com)

« *Next Generation Blockchain-Based Financial Services.* » (2020, Future Perspectives of Decentralized Applications)

« *A Big Data reference architecture for emergency management.* » (2020, Information 11(12))

« *A Cloud-Based Big Data Architecture for an Intelligent Green Truck.* » (2020, Conference on Sustainable Urban Mobility)

« *Detecting water using UAV-based GNSS-Reflectometry data and Artificial Intelligence.* » (2019, IEEE International Workshop on Metrology for Agriculture and Forestry)

« *Detection of GNSS ionospheric scintillations based on machine learning decision tree.* » (2018, IEEE Transactions on Aerospace and Electronic Systems 55 (1))

« *A machine learning approach to GNSS scintillation detection: automatic soft inspection of the events.* » (2017, 30th International Technical Meeting of the Satellite Division of The Institute of Navigation)

« *Topic development-based refinement of audio-segmented television news.* » (2008, International Conference on Application of Natural Language to Information Systems)

Full list of papers available at alfredofavenza.github.io

WORKING GROUPS PARTICIPATION

Since 2017	*ION's GNSS SDR Metadata Standard Working Group – Contributor and LINKS Representative*
Since 2020	*The Alliance for the Internet of Things Innovation (AIOTI) – Contributor to AIOTI DLT Working Group*
2015-2020	*Big Data Value Association (BDVA) – LINKS Representative and Activity Group Member*