University Academic Curriculum Vitae

ANDREA REVOLTI

ACADEMIC EDUCATION AND TRAINING

Graduated the 01th February 2013, Faculty of Engineering of Trento (103/110), **in Architecture and Building Engineering (MA) (DICAM - Dipartimento Ingegneria Civile, Ambientale e Meccanica)** with thesis titled "Interaction between modern and ancient: Project of recovery and reuse of the Castel Belfort's ruins", supervirors Arch. Giorgio Cacciaguerra and Eng. Maurizio Costantini.

Selected to participate in WNHM (World Natural Heritage Management Master, 2013) organized by S.T.E.P. (TSM - Trentino School Management). Presentation of the research thesis on management and recovery of the alpine architectural heritage (94/100).

Qualified as professional Engineer (State Examination – Civil Section A) in the first examination session, 2013.

Qualified as professional Architect (State Examination – Section A) in the first examination session, 2020.

Member of the Engineers Body of Trento num. 3926 in January 2014.

Member of the Architects Body of Trento num. 1859 in January 2025.

Certified Professional User of BIM software REVIT (Autodesk), Archicad (Graphisoft) and 3D CAD/CAM Dietrich (Dietrich's)

High school diploma specialising in scientific subjects – Scientific High School Galileo Galilei di Trento - Italy - (2006) (93/100).

WORK EXPERIENCE PRESENT APPOINTMENT

• Dates	FROM 01/12/2017 TO TODAY
• Name of employer	**Free University of Bolzano (UniBz)** Principal Investigator Prof. Werner Nutt and Dr. Patrick Dallasega Collaboration with Dr. Patrick Dallasega and Elisa Marengo
• Type of business or sector	Industrial and Mechanical Engineering
• Occupation or position held	**Research Assistant (AR) – COCkPit Project (FESR) - http://www.cockpit-project.com/** **Research Assistant (AR) – Confucius Project** **Research Assistant (AR) – SMF4INFRA Project (Partnership with ETH Zurich)**

• Main activities and responsibilities

- Identification and testing of the most common software-tools for planning and coordinating projects in the construction industry
- Description of the basic methods and approaches that are implemented by the software tools
- Analysis of the currently in BIM's avaiable information that can be used for a proper planning in the construction execution process
- Technical specification describing the strenghts and shortcomings of the BIM approach for a detailed planning and monitoring of the construction execution process
- Literature review to describe the weak points of the most used software tools, which hinder an effective coordination, as well as an efficient execution of construction projects
- Research and development of approaches and methodologies for modelling, planning and supervising in real-time the construction progress
- Partecipation in meeting and workshop with **local companies (Frener & Reifer, Atzwanger and Unionbau directly involved in the Project; Mader, Schmidhammer, Haller and Photogram related at other presentation, minor research project and workshops)** to identify the requirements for the development of the methodology and future research.
- Support in the definition of requirements to develop a software prototype with the following functionalities: 1) modeling of construction process 2) short-term scheduling of task on site and 3) monitoring/supervision in real-time of the construction progress.
- Collaboration in the publication of the reached results in scientific journals and conferences.
- Co-Supervisor of the Thesis "Process Patterns to support Planning and Scheduling of Construction Projects: An Approach and a Software Prototype" - Master in Industrial and Mechanical Engineering – Logistics and Production Double Degree Program with the Otto von Guericke Universität Magdeburg, Student Riccardo Stoppa

• Dates — FROM 01/10/2014 TO TODAY

• Name of employer — **Freelance Engineer, Architect and Project Manager**

• Type of business or sector — Architectural Design, Research, Submission & management of European Projects (H2020).

• Occupation or position held — Designer – **Construction Site Project Manager** and **Consultant for European Projects Quality Manager, Certified BIM expert.**

• Clients — Trilogis s.r.l., DICAM (Department of Civil, Environmental and Mechanics), Architectural Heritage of Trentino (Arch. Franco Marzatico), Trento Structure Studio (Ing. Fabio Revolti), Public Administrations in Trentino (Palù del Fersina ecc), Private clients, Costa Studio (Cavalese)

Main research projects in which he has worked in a similar field with this call for proposals:

Project Name: I-locate	**Duration 2014-2016**	**Horizon 2020** **Overall budget € 4 727 970**
Recent studies have highlighted that, on average, we spend approximately 90% of our time indoors, often in unfamiliar environments. Being able to seamlessly locate people or objects within indoor AND outdoor spaces could enable a number of new Location-Based Services (LBS) of significant economic relevance. In some cases, such as in modern hospitals and health care centres, efficient and accurate **"asset" tracking and management** (be this medical staff, patients, visitors, equipment etc.) is extremely important in economic as well as in social terms. Such location services require having access to Geographic Information (GI) of outdoor and –most notably– indoor spaces **(BIM based).** While outdoor data can be easily accessed as Open Data (OD), a notable example being OpenStreetMap (OSM), the availability of Geographical Information of indoor spaces is not available on a large scale as Open Data. In case of publicly accessible buildings, such as hospitals, stations, airports, shopping malls and public offices, having access to geographical data of indoor spaces, and particularly as Open Data, could allow new business activities and bring a number of social benefits. http://www.i-locate.eu/ ROLE: coordinator of digitization and optimization of indoor space plans		
Project: SeNECA	**Duration 2015-2017**	**Caritro Foundation** **Overall budget € 143 000**

Nowadays there is a growing demand for high quality spatial data, for efficient methods of sharing and updating geo-information and for a sustainable management of natural resources and energy. Focused policies at international level are promoting the adoption of advanced information technologies for delivering effective 3D data, new solutions and services to the citizens and public administrations. The market is ready for new spatial data but there are not many reliable services offered so far. SENECA (Smart and sustaiNablE City from Above) aims at developing a reliable methodology for the processing of aerial imagery for the derivation of high quality 3D data and energy audit. The partners will thus deliver innovative procedures and advanced solutions for the distribution of useful services to citizens and public administrations based on spatial information. Between the possible results and services we can list: estimation of the photo-voltaic potential of building roofs, calculation of houses heat losses, **production of Building Information Models,** environmental and natural resources estimation and management, etc. http://seneca.fbk.eu/home

ROLE: Tutor of Trilogis and FBK researchers, coordinator of BIM models at territorial scale.

Project: MDO	**Duration 2013-2014**	**Law 6 of Trentino for the Innovation and Research Projects** **Overall budget € 2 096 668**

The goal of the MDO project is the design and test of a service which realizes the Building's Handbook, both with the use and development of qualified professional resources in the Trentino area, and through the creation of an information system for the treatment and integration of processes and data. Currently, building's information are fragmented, hard to find and not shared. The MDO's service enables heterogeneous users to consult, update and share informations about the work – even on-site – cooperatively across many areas of interest. A fundamental aspect of the MDO's service is the dynamism, the information availability (also "on-site") and the complete interaction with users; therefore it will be based on **service-oriented architecture (SOA). Users with different roles, use and update MDO's services each with their own levels of access. The same way they can be informed directly by the MDO's services (SMS, e-mail, fax or otherwise) for occurred updates, whether normative or related to a periodic review (as, for example, that required for fire-fighting).** The information will be certified by a metadating system that will ensure the correct and complete description of the data itself. The monitoring is done using a computer system integrated with innovative technologies (RFID) to manage the immediate availability of information/documents relating to a building or parts of it using also mobile devices (PDAs, mobile NFC, mobile, etc.). Users can access data at any time (because stored in a central system and served with technologies like the Internet of things). MDO project involving the cooperation between 2 Trento's companies (Trilogis Srl – GPI SpA) and D-Recta Srl consulting company Conegliano Veneto (Trilogis's partner since 2008), the DISI department of University of Trento, the RFID Competence Center of the Polytechnic of Milan, the consortium Habitech – Technology Cluster, and collaboration with some test site for the testing of the prototype development.

ROLE: Expert consultant for the **management of buildings using BIM** models and coordinator of the tool for the calculation of the actualized benchmark of the value of the real estate.

• Dates	FROM 10/03/2014 TO 17/01/2017
• Name of employer	**UNITN – DICAM (Mesiano**) Prof. Eng. Maurizio Costantini
• Type of business or sector	University of Trento – Engineering and Building Construction
• Occupation or position held	Researcher and Designer (co.co.pro)
• Main activities and responsibilities	Research for reuse of building materials (PRIN-Recycle) - Research Programs of National Interest - http://recycleitaly.iuav.it/ In line with the objectives of Horizon 2020 and the strategic policies of Europe 2020, and in accordance with the indications of the European Landscape Convention, the research intends to explore the operational impact of the recycling process on the urban system and on the traces of urbanization that invest the territory so that these "materials" become part, together with the environmental system, of a single metabolism. The hypothesis of preserving the "urban resource", just as forests and rivers are preserved, naturalizes the phenomenon, but represents a fundamental step in policies and projects for the city. It recognizes the existence of a progression, from birth to ageing, but at the same time reacts to decline by supporting the possibility and usefulness of projects, policies and practices capable of activating new life cycles.

• Dates	FROM 01/04/2014 TO 30/09/2014
• Name of employer	**Trilogis srl (Rovereto – TN**) – President Arch. Gianni Rangoni
• Type of business or sector	**Software Development - Spatiotemporal Information System, GIS Indoor/BIM**
• Occupation or position held	Project Manager and Consultant for European Projects - Quality Manager
• Main activities and responsibilities	Projects: I-Locate, OSM, MEPI, AQASystem, Land Energy Cadastre, MDO, Mhymesis, Centric and other European Projects Horizon 2020, Espresso.

• Dates	FROM 13/01/2014 TO 31/07/2014
• Name of employer	**COGI srl - Milan** Mr. Mario Guidotti
• Type of business or sector	Prefabricated Steel Structure
• Occupation or position held	**Innovation Manager Consultant**
• Main activities and responsibilities	Technical report's Supervisor of the patent "Light Steel Frame" Designer of prefabricated lightweight steel structure prototype, 3D Models and Renders http://www.steelmax.it/

• Dates	FROM 15/10/2013 TO 14/11/2013
• Name of employer	***G*overning Body of Suomenlinna** Arch. Petri Mikonsaari
• Type of business or sector	Building Restoration Management
• Occupation or position held	**Project Manager and Designer (Stage)**
• Main activities and responsibilities	Design aimed at the recovery/restoration of the historic buildings on Suomenlinna Island (Helsinki).

• Dates	FROM 18/03/2013 TO 19/09/2013
• Name of employer	**UNITN – DICAM (Mesiano)** Professor Eng. Maurizio Costantini
• Type of business or sector	University of Trento – Engineering and Building Construction
• Occupation or position held	**Researcher (Co. Co. Pro.)**
• Main activities and responsibilities	Research for the recycle of building materials following demolition Perspective of "Carrying capacity", Sustainability, Materials flow balance, New practice of LCA (Life Cycle Assessment), Green building certifications

• Dates	FROM 09/10/2012 TO 21/12/2012
• Name of employer	Arch. Chiara M. A. Bertoli - Trento
• Type of business or sector	Architecture and Engineering Studio
• Occupation or position held	**Planner & Designer**
• Main activities and responsibilities	Architectural planning and competitions participation *[Competition Requalification Walls of Piacenza - Winner]* *[Contest Requalification lakefront Caldonazzo - Special Mention]* *[Design for information panels of Castel Belfort]*

PERSONAL SKILLS AND COMPETENCES

PERSONAL SKILLS AND COMPETENCES
WORK EXPERTISE
CAPABILITIES

Civil Engineer and Architect with **qualified experience in design and management in the construction sector** (he opened his own studio in 2014) with realizations in the whole Trentino region for private and public clients. In all his projects, he has also been **responsible for the supervision of the works and activities on site as Construction Manager**. In addition to classic construction techniques, he **specializes in prefabrication design strategies (x-lam wood and cold-rolled steel)**, which he uses mainly in alpine mountain heritage restoration projects. He has **supported technical education with a master's degree in Project Management** in order to acquire **skills in working group management**, **stakeholder relations and clarity of management strategies. As Project Manager pays particular attention (supported by BIM models) to:**

Managing the integration and coordination of all phases of the Project life cycle and Logistic;
Management of project scope and deliverables;
Time management, scheduling and monitoring;
Management of costs and financial plan;
Project quality management in terms of both quality assurance and quality control;
Human resources planning and management;
Risk management;
Management of supplying;
Project stakeholder management;
LCA evaluation for the architectural component

During his university studies he started to use the **BIM (Building Information Modeling)** approach for the management of building projects, and over the years he **certified this competence with specialized courses with the issue of certificates (Archicad and Revit).He is able to manage every aspect of his projects through BIM software, using the so-called seven dimensions (from the 3D to the Life Cycle Assessments).It knows how to use all the main BIM viewers connected in the cloud with the original BIM model, useful to retrieve and update information directly in the field (Acca BIMviewer, BIMcollab, BIM vision, Solibri ecc).**

He has developed a strategy for **managing the progress of construction site activities, using the tool of graphic overwriting (normally used for other purposes within the mentioned software). Over the past 4 years has developed expertise in augmented reality and virtual reality in the construction sector.**

EXPERIENCE IN RESEARCH, RESEARCH METHODS AND OTHER ACADEMIC RESPONSABILITIES

In addition to his work as a construction engineer and designer, he has developed stable collaborations with

University of Trento (Co.co.Pro and Researcher)
Research Center FBK (Research & Innovation Consultant and Tutor)
Research Center FEM (Research & Innovation Consultant)
VRT Foundation (Reasearch & Innovation Consultant)

and with **Trentino IT companies** (Trilogis srl, U-Hopper, etc.) participating in the writing and conducting of numerous R&D projects (**H2020, Widespread, Fesr, AlpineSpace, Interreg, Caritro)** that have led to the **creation of software and tools dedicated to the control of the useful life of buildings, calculation of energy dispersion and tracking of objects and assets in the indoor environment and maintenance management, also approaching concepts such as Artificial Intelligence, Machine Learning and Digital Twin and IoT, applied in the building context.**

[Brief description of the projects in the **work experience section page 2-3 of the CV**]

During the **I-locate European Project** he worked also with Professor **Ki-Joune Li (University of Pusan - http://lik.pusan.ac.kr/)** in the definition of the **OGC Standard for Indoor Spatial Information INDOOR GML (http://www.indoorgml.net/)**

COCKPIT:

Selected by **UNIBZ** to participate in the Cockpit research project (with also **Fraunhofer Italy**), in the last three years he has specialized in creating and using **BIM models for the AR/VR field, using tools such as HOLOLENS and OCULUS, he has refined his experience in quantitative/qualitative research methods, systematic literature review and scientific publications, he supported the definition of use cases, architectures and requirements of software solutions and he has managed the relations with South Tyrolean companies**. Infact, within the project he worked with Atzwanger, Frener&Reifer and UnionBau, and he met other companies in further meetings and workshops (Mader, Schmidthammer, Photogram Niederstatter and Haller).

CONFUCIUS:

Within the project Confucius I have carried out a **literature review** of the **state of the art** of **machine learning approaches** applied to point cloud management and **BIM**. Through the use of tools such as Photogram and hardware such as the **BLK2GO** (Leica) I Have actively collaborated in the production of training data for the company Novitas and Mader. I was involved in the research and development of **tools and techniques for pattern-based planning of construction processes suitable for small and medium-sized enterprises (SMEs).** With the research teams we created workshops with local companies to identify requirements for the development of techniques and tools based on **process mining** and **machine learning techniques.**

SMF4INFRA

For the SMF4INFRA project, I contributed to the modelling with a **BIM approach** of the mobile factory (built using prefabricated structures that can be easily assembled and disassembled). I carried out a search for the necessary means for the production line of the HyperTube elements. I supported the **LCA analysis** of the production line and the entire cycle of the Smart Mobile Factory. I am ultimately developing a **framework** to make the **transition from a BIM Model to a DT** more direct through the IFC protocol imported within Unity.

I have also supported the thesis student Georgiana Bud at the request of Prof. Werner Nutt and Dr. Elisa Marengo, in the realization of 3D models (in BIM format) for a more effective and clear graphic rendering of the results of the software solution developed (which had obvious references and links to the Cockpit project). I was the **co-supervisor** for student Riccardo Stoppa **master's thesis** ""Process Patterns to support Planning and Scheduling of Construction Projects: An Approach and a Software Prototype", providing support and ideas for the application of machine learning for pattern detection in the construction industry. I served as the secondary advisor for the Bachelor's thesis of student M. Castellaz, titled "Life Cycle Assessment of a Smart Mobile Factory for Infrastructure Projects: A Case Study," and for the Master's thesis of student N. Miori, titled "Life Cycle Assessment of a Smart Mobile Factory for Infrastructure Projects: A Case Study."

EXPERIENCE IN ACADEMIC TEACHING

UNITN:

Collaborator of Prof. Eng. Maurizio Costantini: Full Professor at the University of Trento, Civil, Environmental and Mechanics Dept (DICAM), chairs of Building Management & Construction and of Quality Management in Construction. **In these years, his efforts were focused on educating and training students, within this context, in the usage of design and management tools (Building Information Modeling, Building Information Management, Integrated Management Systems, Shared Document Management) (2014-2017)**

UNIBZ:

Teaching assistant (laboratory) of Professor. Dr. Patrick Dallasega within the following courses:

1. **Project Economics and Management - Module I (2018-2021 – 10 h)**
2. **Industrieanlagen und Arbeitssicherheit (2018 – 30 h)**

Contract Professor with Dr. Luca Gualtieri within the following courses:

3. **Manufacturing Technology (2021 – 24 h)**

PUBLICATIONS

- Abitare la città: dalla casa al paesaggio urbano",(2007), supervisor Arch. Claudia Battaino (Designer in the Team – "Semplice Project")
- "Alps N.2 Alpine Landscapes – Project Sustainable" (2010), supervisor Arch. Giuseppe Scaglione (Designer in the Team "Research Lab Pavilion")
- "Cities in Nature – Ecourbanism Landscape Architecture", (2012), supervisor Arch. Giuseppe Scaglione
- (Designer in the Team "Metrolandscape" and "Woodlandscape")
- Publication in the magazine PNAB (Natural Park Adamello Brenta) (2013) (Writer "Castel Belfort – History and Images")
- Publication of the "Caldonazzo's Project" in the magazine "a" (n°3 – 2013) (Designer with Arch. Bertoli and Arch. Marinaccio)
- Publication of the Abstract "Interaction between modern and ancient: Project of recovery and reuse of Castel Belfort's ruins" in the periodic "Alps N° 5 - Recycle, Redesign, Reshape, Rethink Ecologicaldesign" (2014) (Designer)
- Publication with Prof. Costantini [DICAM UNITN] PRIN - REcycle – Italy (2017) – LCA Life Cycle Assessment.
- LIFE FRANCA: A PROJECT ON FLOOD RISK ANTICIPATION AND COMMUNICATION IN THE ALPS- XXXVII Convegno Nazionale di Idraulica e Costruzioni Idrauliche Reggio Calabria (2021)
- GEOSPATIAL DATA PROCESSING FOR 3D CITY MODEL GENERATION, MANAGEMENT AND VISUALIZATION- ISPRS Hannover Workshop: HRIGI 17 – CMRT 17 – ISA 17 – EuroCOW 17, 6–9 June 2017, Hannover, Germany - I.Toschi , E. Nocerino , F. Remondino, A. Revolti , G. Soria , S. Piffer
- **Publications with UNIBZ**:

Authors	Title	Venue	Date
Jianxiang Ma Andrea Revolti Lorenzo Benedetti Edwin Zea Escamilla Guillaume Habert	**Emission-Based Relocation Strategies for Mobile Prefabrication Factories**	**NTZR 2024.**	**2025**
Patrick Dallasega, Ishaan Kaushal, Andrea Revolti, Nicholas Miori	**Life Cycle Analysis for the Concept Design of a Smart Mobile Factory (SMF) for Infrastructure Construction Projects**	**AMPS 2024 Conference**	**2024**
Andrea Revolti, Luca Gualtieri, Pieter Pauwels, Patrick Dallasega	**From building information modeling to construction digital twin: a conceptual framework**	**Production & Manufacturing Research: An Open Access Journal**	**2024**
Luca Gualtieri, Maximilian Öhler Andrea Revolti, Patrick Dallasega	**A visual management and augmented-reality-based training module for the enhancement of short and**	**Computers & Industrial Engineering**	**2024**

	long-term procedural knowledge retention in complex machinery setup		
Ali Asghar Bataleblu Erwin Rauch, Andrea Revolti, Patrick Dallasega	Smart Mobile Factory Design Decomposition Using Model-Based Systems Engineering	15th International Conference on Axiomatic Design	2023
Patrick Dallasega, Andrea Revolti, Felix Schulze, Lorenzo Benedetti, Doré de Morsier	**Requirement Analysis and Concept Design of a Smart Mobile Factory for Infrastructure Projects**	**APMS 2023 Conference**	**2023**
Nicolo Angeli, Andrea Revolti, Italo Petitti, Daniel Fraccaroli & Patrick Dallasega	A Framework for Digital Factory Planning and Validation with Virtual and Augmented Reality: An Automotive Case Study	ISIEA 2023 Conference	2023
Andrea Revolti, Luca Gualtieri, Renzo Odorizzi, Paolo Tosi & Patrick Dallasega	**Training Support with Augmented Reality for Machine Setup: A Case Study in the Process Industry**	**ISIEA 2023 Conference**	**2023**
Luca Gualtieri, Andrea Revolti, Patrick Dallasega	A human-centered conceptual model for integrating Augmented Reality and Dynamic Digital Models to reduce occupational risks in industrial contexts	ISM 2022 Conference	2023
Andrea Revolti, Patrick Dallasega, Felix Schulze, Alexander Walder	**Augmented Reality to support the maintenance of urban-line infrastructures: A case study**	**ISM 2022 Conference**	**2023**
Patrick Dallasega, Andrea Revolti, Felix Schulze	**Augmented Reality to overcome Visual Management implementation barriers in construction: a MEP case study**	**Construction Management and Economics**	**2022**
Patrick Dallasega, Andrea Revolti, Felix Schulze, Martin Martinelli	Augmented Reality to Increase Efficiency of MEP Construction: A Case Study	38th International Symposium on Automation and Robotics in Construction (ISARC 2021)	2021
Patrick Dallasega, Elisa Marengo, Andrea Revolti	**Strengths and shortcomings of methodologies for production planning and control of construction projects: a systematic literature review and future perspectives**	**Production Planning & Control Journal Pages 257-282**	**2020**
Patrick Dallasega, Andrea Revolti, Philipp C. Sauer, Felix Schulze, and Erwin Rauch.	BIM, Augmented and Virtual Reality empowering Lean Construction	In Procedia Manufacturing 45, pp 49-54. 2020.	2020
Patrick Dallasega,	BIM-Based Construction	IGLC 2019 –	2019

Andrea Revolti, Camilla Follini, Christoph Paul Schimanski, Dominik T. Matt	Progress Measurement of Non-Repetitive HVAC Installation Works.	27th Annual Conference on the International Group for Lean Construction	
Christoph Paul Schimanski, Carmen Marcher, Patrick Dallasega, Elisa Marengo, Camilla Follini, Arif U. Rahman, Andrea Revolti, Werner Nutt, Dominik T. Matt	Promoting Collaborative Construction Process Management by Means of a Normalized Workload Approach	IGLC 2018 – 26th Annual Conference on the International Group for Lean Construction	2018
Patrick Dallasega, Christoph Paul Schimanski, Andrea Revolti, Carmen Marcher, Dominik T. Matt	Untersuchung des Potentials für KMU zur Unterstützung der Baulieferkette mit Building Information Modeling: eine Fallstudie eines ETO-Fassadenlieferanten	KMU 4.0 – Digitale Transformation in kleinen und mittelständischen Unternehmen	2018

SOFTWARE USED IN THE SPECIFIC FIELD

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Autodesk – Autocad [Professional User – 16 years of experience]
Autodesk Revit (BIM) [Professional Certified User – 12 years of experience]
Graphisoft – Archicad (BIM) [Professional Certified User – 12 years of experience]
Bim Holoview (AR – Hololens 1&2) [Professional User – 4 years of experience]
Iris Prospect (VR – Oculus) [Professional User – 4 years of experience]
Bexel – Management tool for OpenBIM [4 years of experience]
Tally (Plug-in BIM for LCA in Construction) [3 years of experience]
Trimble Connect
BIM viewer software (AccaBIMviewer, BIMcollab, Solibri, BIMvision)
Dietrich's Software
Unity Industry
Adobe Suite (Photoshop, Indesign, Flash ecc.) [Professional User – 15 years of experience]
Pinnacle Studio
Comsol Multiphysics
Cinema 4D
VisualLive for Augmented Reality
Wordpress
ArcGis – Qgis [Professional User – 8 years of experience]
VisTable
Microsoft Office (Word, Excel, Project ecc.) [Professional User]

PARTICIPATION IN EXHIBITIONS SPEAKER, TUTOR

- Exposition in Merano with the project "Trentino-Alto Adige Multilayers 2030" (2009) (**Designer**)
- "Workshop: Biennale Alps - Alpine Landscapes" (2010) (**Partecipant**)
- "Competition for the retraining of the ancient walls of Piacenza", collaboration with Arch. Bertoli and Arch. Marinaccio (2012) (**I° PRIZE**)
- "Competition for the retraining and development of the lakefrond of Caldonazzo Lake"- Comune di Pergine, collaboration with Arch. Bertoli and Arch. Marinaccio (2012) (**SPECIAL MENTION**)
- "Degree Thesis Prize" awarded from Sopr. dei Beni Architettonici di Trento (2013)
- "XVI Prize for Architectural Thesis on Old Fortification / Castle" - by IIC - Istituto Italiano dei Castelli (2013) (**SPECIAL MENTION**)
- "Contest – Ruins from the Future" – promoted by abacO (**Partecipant**)
- "Competition ArCa Baby Little Home 2.0" (2013) (**IV PLACE**)

- "Post-Quake Vision" - Design competition sponsored by the YAC (Young Architects Competitions) for the re-development of the medieval village of Crevalcore, heavily damaged by the earthquake that hit Emilia-Romagna in 2012. (2013) (**Participant**)
- Public presentation of the Thesis "Interaction between modern and ancient: Project of recovery and reuse of the Castel Belfort's ruins" in the theater of Spormaggiore. Partecipation of citizens and authorities. (2013) (Speaker)
- "Ambiente Euregio Prize" – Trentino Section – (2013) (**PROJECT'S MENTION**)
- Participation in the OP-CALL POSITION (PRIN-Recycle Italy) with the interpretation of the theme "Re-cycle: Known / Innovative" (2014) (publication scheduled for June 21, 2014 – Ed. Arachne) Supervisor Eng. Costantini (**Writer**)
- Participation in the competition for "Thesis on the territory of the BIM Adige", organized by the Consortium of the Province of Trento. (2014) (**Writer**)
- Participation in the "Thesis Prize Aldegheri 2014", organized by CITRAC (Trentino Contemporary Architecture's Club). (2014) (**Publication + Exhibition**)
- Participation in the exhibition organized by DICAM (Department of Civil, Environmental and Mechanical Engineering) in the PRIN research "The Sarca and Hydroelectric Power" in the city of Pavia, Rome, Bolzano and Trento, with the project "Recovery and Reuse Hydroelectric Plant Prabi, Arc. "(2014) (**Publication** + **Designer**)
- Participation in the "Competition of ideas for the reconstruction of Fanton bivouac on Marmarole (BL)". (2015) (**Designer**)
- Participation in the contest "The shelter on the Tree" promoted by Piemmeti SpA, in partnership with Arca (2015) (**Designer**)
- **Participation in the contest "The Plan Award" sponsored by the magazine THE PLAN (2015) - (Project finalist in the "OLD & NEW" section). Presentation of the project in 2015 hosted the event Perspective MiCo (Milan). (Designer – FINALIST – Online Pubblication)**

  https://www.theplan.it/eng/architettura/progetto-di-recupero-e-riutilizzo-dei-lacerti-murari-di-castel-belfort
- Tutor of the research project "SeNECA", promoted by CARITRO Foundation (2015-2017)
- Member of C.U.T.A. (Commissione Urbanistica Territorio Ambiente) for the Municipality of Palù del Fersina (2016)
- Participation in the competition for the redevelopment of the home for the elderly "Giovanni Endrizzi" of Lavis (TRENTO) - (2018) - (as **BIM expert**)
- Conference "Istituto Italiano dei Castelli" (2018) (**Speaker**) http://www.istitutoitalianocastelli.it/images/IIC_TNAA_8_rev02.pdf
- Speaker within the context of the European Social Fund research project (hereinafter "ESF research project") entitled "Digital and Technology Summer Camp",(2021)
- Speaker with Prof. Dallasega, at the training day, organised by the company MADER at their premises in Bressanone, dedicated to innovation in the construction sector. The event was attended by about 100 technicians (including those present and those connected online). The event has been summarized in an article of the local press. (2021)

STATEMENT OF INTEREST

Through my master's degree program and past work experiences I have gained the necessary expertise to become **very skilled in the building's design and project's management (using the BIM approach).** With the I-locate, Centric, Espresso, SeNECA, Mhymesis, MDO, and Cockpit Projects I have focused my preparation also **in writing scientific articles** and in the management of European Projects (H2020, Widespread, Interreg, Alpine Space and FESR). Thanks to the **past work in team with many IT experts, I have developed excellent transversal relationship skills and clarity to support the development of software solutions,** I feel that I would be a valuable asset to your **Team** bringing an added level of expertise in**: 3D modelling** (also with data mining from the BIM files and **DIGITAL TWIN** models), **building site management, Project Management, interaction with local companies to define the requirements for scheduling, research and identification of strengths and weaknesses of software for building site/logistic monitoring, development of strategies for the logistical management of components and creation of a business plan for project outcomes (e.g. patent) at the end of the research. Infact, I have already successfully submitted one my past project hypothesis to the chamber of commerce to guarantee intellectual property right. I would also be useful for scientific publications and for the dissemination of the project towards the professional orders as already happened**

with the COCKPIT and CONFUCIUS project (Presentation of 4 hours at the Order of Engineers - 2019), being an active member of the innovation commissions within the order of Trentino. Finally, I have already worked with LCA approaches applied to prefabrication and reuse of components, as evidenced by the publications in the annexes.

MEMBERSHIP **Member of the Engineers Body of Trento num. 3926 in January 2014.**

LANGUAGE COMPETENCE

MOTHER TONGUE **Italian**

OTHER LANGUAGES

ENGLISH (FIRST CERTIFICATE B2 – CAMBRIDGE ASSESSMENT) (2005)
GERMAN (ZERTIFIKAT DEUTSCH B1 – GOETHE INSTITUT) (2004) - I AM CURRENTLY STARTING TO ATTEND AN ONLINE COURSE AT UNIBZ THIS FALL.

- Reading skills: ENGLISH (EXCELLENT) – GERMAN (INTERMEDIATE)
- Writing skills: ENGLISH (EXCELLENT) – GERMAN (INTERMEDIATE)
- Verbal skills: ENGLISH (EXCELLENT) – GERMAN (INTERMEDIATE)

DRIVING LICENCE(S) A – B (private car owner)

ADDITIONAL INFORMATION
FURTHER DATA

ANNEXES

Data protection code in compliance with art. 13 of Legislative Decree no. 196/2003 “In compliance with the Italian legislative Decree no. 196 dated 30/06/2003, I hereby authorize you to use and process my personal details contained in this document.”

I declare, pursuant to art. 76 of Presidential Decree 445/2000, that the information is true. I authorize the processing of my personal data in accordance with Legislative Decree 30 June 2003, n. 196 "Code for the protection of personal data" and the GDPR 679/16 - "European Regulation on the protection of personal data".

DATE

17 – 03--2025

SIGNATURE