

BETTER REALITY ATI Project

WE ENVISION FUTURE PLACES, SPACES AND CONTEXTS, PUTTING PEOPLE AND THE ENVIRONMENT AT THE CENTRE OF ARCHITECTURE AND DESIGN.



∧ RESIDENTIAL PORTFOLIO

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WE DEFINE SCHOOL ARCHITECTURE AS A **SETTING FOR DIALOGUE** AND AS AN OPPORTUNITY TO ENHANCE THE BOND BETWEEN THE USERS AND THE ENVIRONMENT

> PISA MILAN BELGRADE ODENSE COPENHAGEN PARIS GENEVA TALLINN

▲ PROFILE

Creating a better reality

Architecture, landscape and technology conceived as a source of inspiration and enrichment of everyday life.

ATI Project is an international firm specialized in **integrated** design in the field of architecture and engineering, committed to the development of **sustainable** buildings with a reduced environmental impact.

The studio was established in 2011 by Branko Zrnic and Luca Serri, founders dedicated to research in bioclimatic architecture and renewable energy.

Within a decade, the **team** has grown from 2 to 300 collaborators, with an average age of 32.

The initial outline of the office is the same that still drives its growth today: a young, visionary,



20 Mil.

YEARS OF CONSTANT GROWTH

TURNOVER IN EUROS

Via Brocchi Elementary School, Milan, Italy





technological studio that natively uses **BIM** to promote multidisciplinarity, as well as innovation and sustainability.

The complexity and number of projects reflect the **internationality** of the studio, which today, in addition to its headquarters in Pisa, has offices in Milan, Belgrade, Odense, Paris, Copenhagen, Geneva and Tallinn.



OF COMPLETED OR ONGOING PROJECTS



A project that connects the education centre and the rest of the urban fabric, with a focus on sustainability and comfort. A EDUCATION

"Dino Compagni" School Complex

When the school dialogues with the city

Developed around the **new** requirements of contemporary education, this project reinterprets school spaces as an **integrated system** of volumes. A strategic concept, allowing a strong dialogue with the city and the local community, reinterpreting the role of the school as a civic centre.

The composition of the volumes characterises the outdoor environments. Each volume is designed to achieve high levels of functionality, comfort and well-being, in a concerted interplay between technology and aesthetics. Energy efficiency and environmental sustainability are central themes of the concept, structured according to the LEED Platinum protocol criteria.







Location: Florence, Italy

Typology: Middle school / New construction

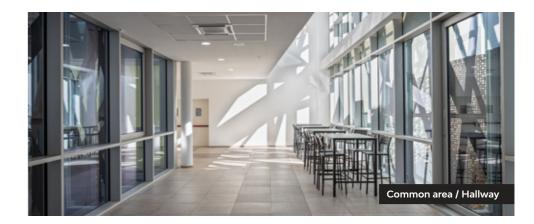
Year: 2016 - 2017

Status: Completed

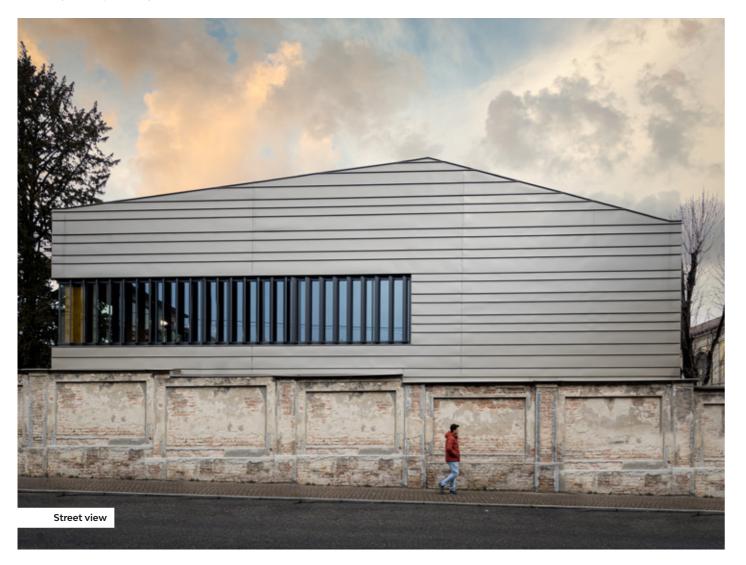
Dimensions: 6.700 sqm

Budget: € 10.4 mln

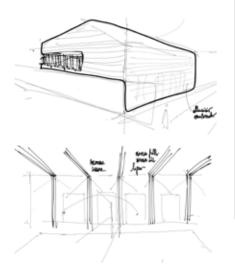
Client: Vincenzo Russo Costruzioni







The design proposal for the school in Casale Monferrato is an example of eco-sustainability and eco-compatibility in a historical context.



A EDUCATION

"A. Trevigi" School extension

Crossed dialogues. Between historical building and energy efficiency

The project for the extension of the **Cova Adaglio Palace** follows a functional approach, where the design criteria derive from the **didactic and organisational requirements** of the school. It stands in continuity to the existing historical building and is characterised by contemporary architectural and technological features.

The volume hosting the classrooms is built in **X-lam panels** and is equipped with FV panels on the roofing that are needed to satisfy energy consumption needs. The **gymnasium** is constructed in a wooden framework, completed with a metallic ventilated façade that provides high bioclimatic performance.

Flexibility is a key focus in the design proposal: the classrooms are separated through movable wall partitions that can be arranged depending on the user's needs.





Location: Casale Monferrato, Italy

Typology: Middle school / Extension

Year: 2019

Status: Completed

Dimensions: 1.035 sqm

Budget: € 1.5 mln

Client: Municipality of Casale Monferrato







Through integrated design in a BIM environment, the University centre brings together functional, plant and technological requirements.



A EDUCATION

University of Florence DAGRI Project

A functional health facility in dialogue with the context

The new headquarters of the Department of Agricultural, Food, Environmental and Forestry Sciences and Technologies (**DAGRI**) and the School of Agriculture at the Scientific-Technological Complex of Sesto Fiorentino is a successful example of **integrated design**.

The project brings together a series of technological complexities and requirements linked to education, research, and sharing, thanks to the instrumental and methodological potential of the **BIM approach**.

The intervention is structured in a regular urban layout, formed by **compact and autonomous volumes**, to ensure better management of user flows and the functioning of the entire

architectural machine.

The **ten independent pavilions** are connected by **elevated ramps** and staircases outlining the open spaces, a meeting place for teachers and students but above all bioclimatic devices for the best indoor comfort.

The external partitions – a reference to the surrounding fields and gardens – work as true **technological membranes**, regulating ventilation and natural lighting. **Sustainability**, **energy efficiency** and **reduced environmental impact** are ensured through the adoption of **innovative technological solutions**.



Location: Sesto Fiorentino, Italy

Typology: University / New construction

Year: 2020

Dimensions: 43.000 sqm

Budget: € 81.6 mln

Client: University of Florence (UNIFI) – Consorzio Energia Toscana (CET)

Activities: AR - ST - MEP design

Collaborators: TEKNE

Credits: Experimental University Laboratory -Unifi







An environmentally conscious project built around the need to maximise the potential of research in the clinical field by encouraging dialogue and multidisciplinarity. A EDUCATION

"Amerigo Vespucci" Technical Nautical Institute

Educational avant-garde meets green building

The project for the new "Amerigo Vespucci" Nautical Institute in Gallipoli brings together new educational needs with green building criteria. The project narrates the territory through its material and environmental characteristics, adopting a simple but evocative language, recognisable but not intrusive in relation to the landscape in which it is set.

The architectural layout develops on **three levels** and appears as a monolithic **block of local stone**, carved by the system of terraces and accesses that follow specific urban and visual directions, channelling the flows of the various users. The **external** envelope is characterised by a **system of flares** that present ever-changing inclinations and focus the gaze on the architectural and landscape emergencies of the surrounding maritime landscape, while mitigating sunlight in the educational spaces.

The **interior spaces** are designed around the educational needs of the course of study, but are also **open to the community** and **social participation**. Mobile partition systems allow for a high degree of flexibility and reconfigurability of rooms as needs change.

The internal layout is designed to make the main functional components independent and autonomous. These include: the **agora**, with its didactic steps; the **gymnasium**, open to local sporting events; the cultural centre, a place for relations that brings the idea of the school back to the socio-urban catalyst of the contemporary city.



Location: Gallipoli, Italy

Typology: Technical Nautical Institute / New construction

Year: 2021 - Ongoing

Status: Design in progress

Dimensions: 4.350 sqm

Budget: € 9.8 mln

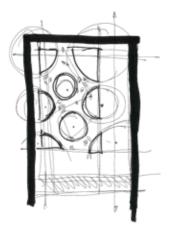
Client: Municipality of Gallipoli







A complex project, bringing together different disciplines and highlighting the opportunities offered by the BIM methodology in the restoration of prestigious historical buildings.



A EDUCATION

Scuola Normale Superiore Renovation

The value of integrated design in the restoration of a historic building

The San Silvestro Compendium, the former headquarters of the Scuola Normale di Pisa, now houses the NEST – National Enterprise for nanoScience and nanoTechnology.

The restoration work was carried out by critically analysing the prestigious building. The aim was on the one hand to **preserve** the material and image of the architectural structure, and on the other hand to **adapt it in terms of installations and technology**, in order to create the **new scientific laboratories**. This **integrated design** in **historical context** has been made possible by the BIM methodology. The development of an **AS BUILD model**, in collaboration with the construction company, enabled the **optimisation of all the project phases**, from the survey to the management of the technological equipment.



Location: Pisa, Italy

Typology: University / Renovation

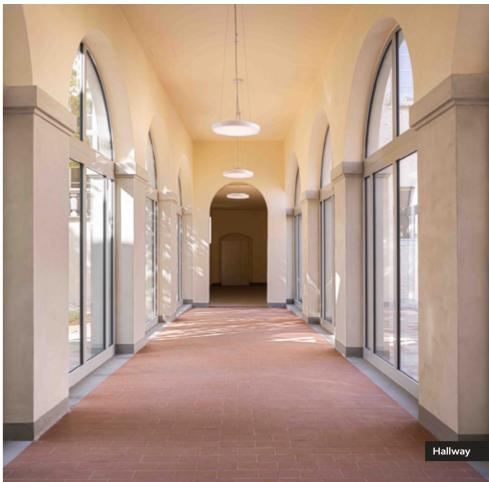
Year: 2013

Status: Completed

Dimensions: 1.900 sqm

Budget: € 4.1 mln

Client: Russo Costruzioni









Location: Milan, Italy

Typology: Elementary School / New construction

Year: 2016 - 2017

Status: Under costruction

Dimensions: 5.900 sqm

Budget: € 12.4 mln

Client: AR.CO. Lavori

Activities: AT - ST - MEP design





the Via Brocchi School is to turn it into a living civic centre, in synergy with its context and contemporary needs of the educational facilities. The design idea behind the Via Brocchi School is to turn it into a living civic centre, in synergy with its context and contemporary needs of

the educational facilities.

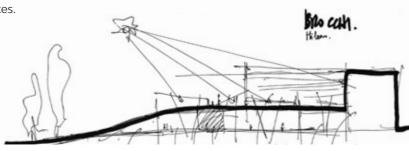
The design idea behind

A EDUCATION

Via Brocchi Elementary School

Multifunctional spaces and a park full of experiences. The school goes green

A school that aims to become a **cultural reference point for the city** of Milan and at the same time a compass for the **school buildings** of the **future**. The project for the elementary **school in Via Brocchi** uses **outdoor spaces** as a key design element, with a dual function, taking on the role of an urban park and a strategic distribution element for the volumes. Hence the constant search for balance between indoor and outdoor spaces. The **indoor spaces are multifunctional and flexible** areas; they diversify the educational offer and guarantee access also during extracurricular hours. The school is designed to achieve **high energy performance**. The use of wood and steel as the structural system contributes to its overall sustainability and allows for shorter construction times









A EDUCATION

"A. Brancati" Middle School

The archetype of sustainability. Towards new frontiers

The project for the new **"Antonio Brancati" middle school** in Pesaro combines a complex system of technical choices, aimed at achieving energy and acoustic efficiency of the building.

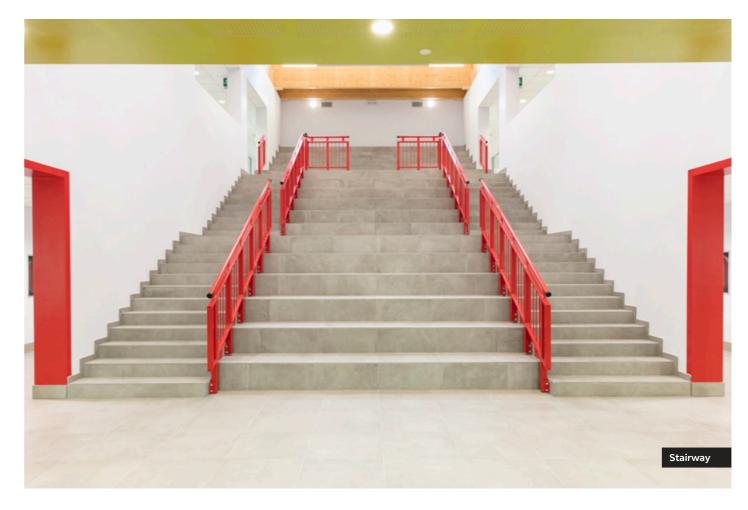
The **envelope** represents the key theme of the intervention.

The integration of a **ventilated facade**, together with the use of **external shading systems**, mitigates the solar heat gain and significantly improves **indoor environmental quality** and comfort.

A high profile plant system is coordinated through an **energy**

management system and remote control of the devices, a strategy that is capable of optimizing energy consumption and reducing fruition costs.

The lighting design and the introduction of VMC systems complete the technological system, an example of **NZEB building** and deserving of its **LEED Platinum certification.**



Location: Pesaro, Italy

Typology: Middle School / New construction

Year: 2018-2019

Status: Completed

Dimensions: 4.000 sqm

Budget: € 2.6 mln

Client: Formula Servizi - Idrotermica Coop -Siem Impianti

Activities: Constructive design

Awards: 2021 US Green Building Council Regional Lwadership Award

Certifications: LEED Platinum

Credits: Ph: Idrotermica Coop











Location: Vedelago, Italy

Typology: Elementary school / New construction

Year: 2017 - 2018

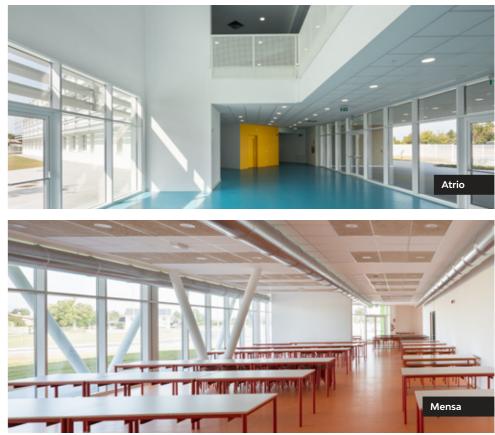
Status: Completed

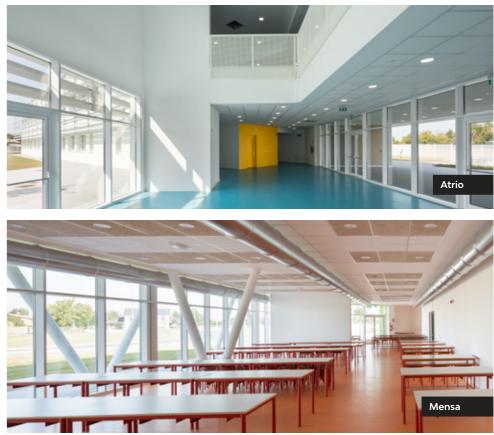
Dimensions: 3.100 sqm

Budget: € 3.2 mln

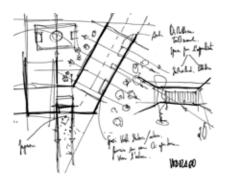
Client: Municipality of Vedelago

Activities: AR - ST - MEP design





The architectural forms translate the new needs of the school, intended as a place of learning oriented also towards the concepts of sociality and environmental sensitivity. With particular attention to internal comfort.



A EDUCATION

Vedelago South School Complex

The school from a contemporary point of view, through architecture.

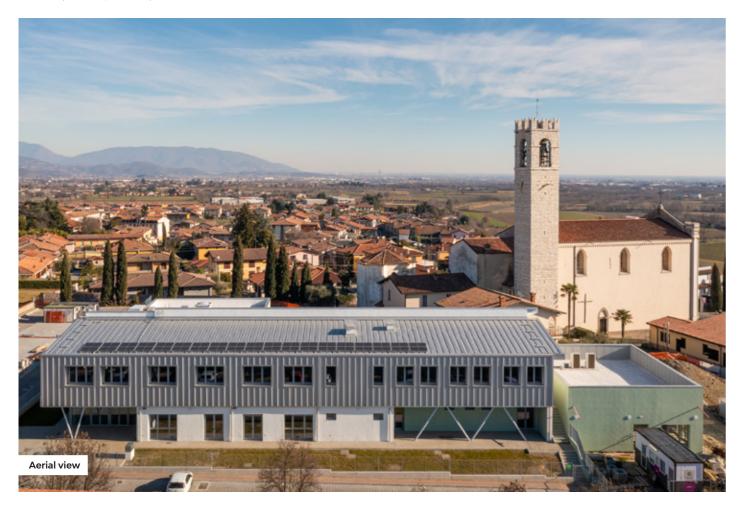
The evolution of educational and teaching methods demands to **rethink** the vision of a school, introducing the themes of **openness**, **modularity** and innovation. The new Vedelago Sud School Complex is designed upon such principles.

The architectural organism combines sustainability and sociality in a unique solution.

The treatment of the elevations differs depending on the orientation and requirements of specific ambients: slim horizontal shading that draws slender shades on the facades on one side;

heavier, solid volumes on the other side, that allow the void and transparency of the entrance to emerge. The main hall acts as a glass-filter towards the interior garden. Plant efficiency, renewable resources and a high-performing envelope are the key elements that turn the new school into a leading example in NZEB education architecture.





The design proposal is built around dialogue and the relationship between indoors and outdoors, creating continuous functional and conceptual synergies. A EDUCATION

Bornato Elementary School

School architecture becomes a paradigm of a new language of education

The concept for the **new elementary** school of Bornato embraces the idea of the school as a "building that educates", inclusive and sustainable. Thereby, the new campus takes on a double significance: on one side it represents a meeting place for the community, where the school premises become welcoming spaces; on the other side it is a place for continuous education, through the presence of laboratories for extra-curricular activities.

The **context** in which it is located is strong in symbolic values for the entire community, the new complex represents an opportunity for a new design that harmonizes and preserves iconic characters and urban value over time. The **new green area** constitutes a micro park that gives access to the school. The flows are filtered by the presence of the civic centre, a connection point between the community of Bornato and the young users of the complex. The project is developed according to **environmental sustainability** criteria, reducing its impact on the territory while ensuring the highest levels of indoor comfort.

Great attention was also paid to the **energy efficiency** of the complex, through the adoption of nZEBtype strategies that have led to the achievement of "A4" Energy Class.



Luogo: Bornato, Italy

Tipologia: Elementary school / New construction

Anno: 2018 - 2019

Stato: Completed

Dimensione: 2.000 sqm

Budget: € 3.8 mln

Cliente: Municipality of Cazzago San Martino

Attività: AR - ST - MEP design









The project is a synthesis of the dialogue between the natural and urban context, a place of education oriented towards inclusiveness.

A EDUCATION

Versiliana School Complex

In the shadow of the Apuan Alps, a school in harmony with the environment

The project for the **new school complex in Forte dei Marmi** stems from a process of integrating the **teaching experience** within a **landscape** with a marked rural character.

The silhouette of the roof recalls the **movement of the Apuan Alps**, a green horizon that covers and protects the school premises.

The **functional layout** establishes a continuous dialogue with nature and

optimizes the flows inside and towards the building.

The new school complex presents itself as the repository of an **open and shared heritage of knowledge** that goes beyond the physical boundaries of built architecture, inserting itself into the social fabric as an emotionally connoted reference.





Location: Forte dei Marmi, Italy

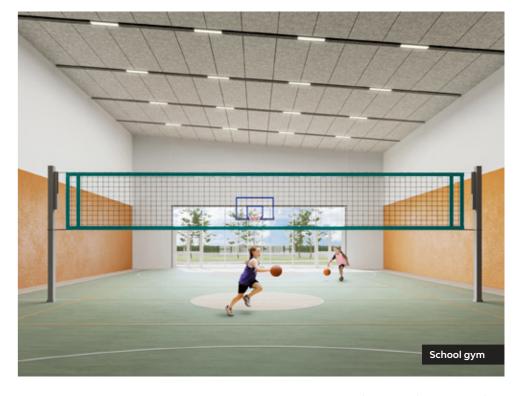
Typology: Elementary School / New construction

Year: 2021 - Ongoing

Status: Design in progress

Dimensions: 2.700 sqm

Budget: € 3.8 mln Client: Municipality of Forte dei Marmi







A EDUCATION

Via Strozzi Middle School

The watchword is community. A school open to listening

To design a school is first and foremost an opportunity to **reactivate the city** both from an **urban perspective** and a **social** one.

These principles have shaped the proposal for the **new middle school in Via Strozzi**: the project is a part of a vaster **requalification** intervention, promoted by the municipality of Milan for the **redevelopment** of a degraded area, stressed by a heavy urban and social neglect. The **flexibility** of the internal partitions and the **modularity** of the structural elements, mostly in wood, mold an **inspiring and innovative space**, in which the variation of functions meets the changing needs of the users.

Sustainability and community work together towards defining the new school.



Location: Milan, Italy

Typology: Middle School / New construction

Year: 2016 - 2017

Status: Under costruction

Dimensions: 6.800 sqm

Budget: € 9.1 mln

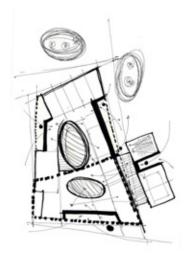
Client: Damiani Costruzioni







A school that goes beyond the passive view of the classroom as the centre of the educational process, creating multiple spaces for alternative education.



A EDUCATION

Tannaule Kindergarten and Elementary School

Volumes and relationships define a technological organism at the service of health

The **new kindergarten and elementary school** in Tannaule, **Olbia**, is first and foremost an interpretation of the necessary renovation that the school architecture is facing, to create spaces for growth and continuous education, open to the community. This is the philosophy that was the basis for the design of the new school, an **open**, **unique** and **integrated space**.

The **various macro-areas** are arranged around two courtyards, that are the core of the circulation and places for meeting and sharing.

The ordinary classroom is transformed into an **organic space** that is activated with the use of a system of mobile partitions and reconfigurable furniture. The technological and plant layout meet the energy needs, creating a performing building that provides **indoor comfort** and wellness for its users. A school that is "listening" cannot avoid to question its own role within the urban context.

The volumes recall the features of the **local architectural tradition**, while they are rewritten within a **modern syntax**, made of movement and a dynamic of light and shadows. The complex extends to the surroundings through its landscape, a dimension in which the city and school building interact and define new urban relations and a new role for the school within the architecture of the city.



Location: Olbia, Italy

Typology: Kindergarten and Elementary School / New construction

Year: 2020 - Ongoing

Status: Design in progress

Dimensions: 4.280 sqm

Budget: € 6.7 mln

Client: Municipality of Olbia





Not just a school building but a space available to the community, designed with a particular care for anti-seismic and energy efficiency criteria. A EDUCATION

Nimis Middle School

Contemporary volumes for a sustainable school

The project for the secondary school in Nimis completes the school campus of the city. The exterior spaces have a special relation with the building that is configured as a **compact volume**. The **circulation areas** are conceived as hybrid zones, at times envisaged as gathering areas and at times as spaces for extra-curricular activities.

From an architectural point of view, the facades are designed to meet the **bioclimatic requirements** with the use of overhangs and sun-shading elements that define its unique volume. The structure in wooden **X-Lam panels** guarantees sustainability and optimal **anti seismic performance**, while the PV panels on the roofing, an efficient envelope and innovative plant systems ensure **high energy-performance**.





Location: Nimis, Italy

Typology: Middle School / New construction

Year: 2019

Status: Under costruction

Dimensions: 1.400 sqm

Budget: € 1.75 mln

Client: Municipality of Nimis









A school designed with particular attention to energy efficiency and flexibility.

A EDUCATION

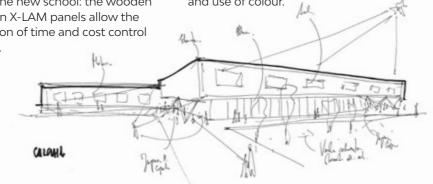
Calcinaia School Complex

A technologically advanced teaching space

The new **School Campus in Calcinaia** is the result of an architectural and technological challenge to create an innovative educational space. The **two class grades**, nursery and primary, connect through the **central court**, the barycentre of the circulation.

The building is the outcome of the **maximization** of all the **multidisciplinary aspects** of the project, relevant also for the construction phase of the new school: the wooden structure in X-LAM panels allow the optimisation of time and cost control processes. The **photovoltaic panels** on the roofing provide energy and thermal supplies for the building and with the domotic systems for sun control, they shape a technologically advanced architectural organism.

The **interiors** have been designed to meet the newest didactic methods, combining practical and theoretical learning, in locations that are upgraded with the use of movable wall-partitions and use of colour.





Location: Calcinaia, Italy

Typology: Kindergarten and Elementary School / New construction

Year: 2017

Status: Under costruction

Dimensions: 4.100 sqm

Budget: € 4.4 mln

Client: Municipality of Calcinaia









A roof in the shape of dragonfly wings and windows as portholes. Designed and built in a wooden structure, the kindergarten is an example of bioarchitecture.

A EDUCATION

Calenzano Kindergarten

Between park and kindergarten, nature at the heart of the learning space

The kindergarten in Calenzano is a solid example of **bioarchitecture**. The school is built in a **wooden structure**, visible in the interior ceilings, that gives the classrooms a warm and pleasant feeling.

The shape of the roofing recalls the wings of a dragonfly and is designed and equipped to meet the school's energy consumption needs.

The school bonds strongly with its context; the design of the facades differs on each of the building's sides,

and the windows change dimension according to the orientation.

Small round windows on one side, **ample curtain walls** on the other, that bring light into the building and create a visual relation with the outdoor playing area and the nearby Neto park.



Location: Calenzano, Italy

Typolgy: Kindergarten / New construction

Year: 2013

Status: Completed

Dimensions: 1.200 sqm

Budget: € 1.1 mln

Client: Russo Costruzioni





A school building design that elects contemporary educational needs and a focus on sustainability as points of reference.

A EDUCATION

"Da Vinci" Elementary School

An energy-efficient learning ecosystem

The elementary school "Da Vinci" in Pistoia is a building that is born as a natural gesture in the landscape of the city. The roofing mirrors the architectural context and is upgraded through environmental and ecological strategies.

The green roof ameliorates the levels of the indoor microclimate, while the pitch, fully covered in photovoltaic panels, bestows the building with high energy efficiency. The facades are featured by a combination of overhangs and depressions that reduce solar impact on the envelope.

The classrooms are organised to meet new educational methods. The exterior garden lends permeability to the design, a feature that defines the building as a true educational ecosystem for the city.





Location: Pistoia, Italy

Typolgy: Elementary School / Extension

Year: 2014

Status: Completed

Dimensions: 1.500 sqm

Budget: € 1.6 mln

Client: Russo Costruzioni





The use of natural materials and the adoption of cuttingedge technical solutions turns the school into a virtuous example of bioarchitecture. A EDUCATION

Kindergarten "Capuana"

Wood and local atmosphere for residences with a green core

The project is an **extension of the existing campus**, designed according to the **principles of sustainability and energetic efficiency**. The disposition of the volumes is optimised in order to guarantee the best overall **thermal performance**.

The **envelope** is characterized by overhangs and sun shading elements

that guarantee a correct solar control, and therefore provide adequate comfort for the classrooms in the summertime. The use of a **wooden structure** and the employment of **eco sustainable materials** are key elements that define "Capuana" as a relevant example of Italian educational bioarchitecture.



Location: Florence, Italy

Typology: Kindergarten / New construction

Year: 2012

Status: Completed

Dimensions: 1.700 sqm

Budget: € 2.5 mln

Client: Russo Costruzioni





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