PORTFOLIO

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Interacting narrations on the boundary on the island of Ioannina

Symmetry Sentience: Interlace

The Pier
aktiver, generer, integrer!

**International architectural competition entry:** Kunstsilo in Kristiansand

**location:** Kristiansand, Norway

**project type:** professional (Architecture/ Restoration-Reuse/ Urban Design)

**work type:** group work

**in collaboration with:** SPARCH Architects, Meinich Architekter (Oslo)

**year:** May 2016

The competition focuses on designing a Museum of Modern Art in an old industrial silo in Kristiansand, Norway. Situated in a former industrial zone, an old grain silo with its 30 cylindrical towers one next to the other is envisioned to stand as part of the currently initiated urban development plan.

"aktiver, generer, integrer!" ("activate, generate, integrate!") aims to become a prompt to "activate" the area, to connect it with the city center and use art and public space to create a centrality. On an architectural level, its aim is to transform the silo into a modern art museum highlighting the structure, creating multiple spatial experiences and incorporating the magic of natural light with art and architecture.

The museum is designed as a hybrid space: once an industrial area, today an art space. The silo towers hide an interior patio filled with light and movement. Bridges at different levels connect the exhibition spaces on the patio’s sides and the users’ movement gets layered. The light penetrates from above letting the two new additions converse with the existing building.

**Commendation at MIPIM AR Future Projects Awards 2017, Cannes, France**

**Distinction in the Competition “Kunstsilo in Kristiansand”, Norway**

**Exhibition at Kilden Performing Arts Center, Kristiansand, Norway**

**Publication in KTIRIO.GR / Athens Voice**
Urban re-integration

(Top) Cultural square’s conceptual analysis (teamwork project)
(Bottom) Masterplan / Site plan (teamwork project)
Silo Museum

(Top) Conceptual and programmatic analysis
(Bottom) Sections

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(Top, Left) Programmatic analysis
(Middle) Foyer view
(Right) Museum bridge view
Silo Museum

(Top, Left) Floor plan 6
(Top, Right) Floor plan 5
(Middle) Diagrammatic floor plan 7-Restaurant
(Bottom) Restaurant view (teamwork product)
International architectural competition entry: Green Academy
location: Bologna, Italy
project type: professional (Architecture/ Restoration-Rehabilitation-Reuse)
work type: group work
in collaboration with: SPARCH Architects
year: July 2016

The “Green Academy” competition encourages the transformation of an old paper factory, designed by Pier Luigi Nervi, in Marzabotto, Bologna, Italy, into a school and a business incubator for start-ups with a focus on environmental and sustainable practices.

The proposal is structured based on the belief that ecology is an ever-changing field; a recycling of ideas, materials and objects. An “eco-cocoon”-a canvas of materials for sustainable energy, from panels of algae to new experimental photovoltaics—covers the old and new buildings.

On the ground floor the longitudinal start-up spaces are connected with the child’s museum via a passage-showroom where the building’s main entrance is located. On the upper floors there is the eco-science museum with linear cuts visually connecting its two floors. On top a roof garden with various plants encourages the experimentation and improves the building’s micro-climate. The old and new buildings are connected via an open space for bazaars, eating and gathering activities. Space is left untreated and rough evoking the memory of the past. The blocks are covered in re-usable brick and re-usable glass claustra that filter the natural light.

**Honorable Mention in DOMES Awards 2017, Athens, Greece, 2017**
**Finalist Mention in the Competition “Green Academy”, Bologna, Italy**
(Top) **Perspective Section** (teamwork product)
(Bottom) **Perspective Top view**
(Left) Programmatic analysis
(Top, Right) Child’s Museum view
(Bottom, Right) Green terrace view (teamwork product)
Sustainability strategy
Materiality analysis
(teamwork product)
(Middle, Left) Summer performance
(Top, Left) Green terrace
floor plan
(Top, Right) Ground floor plan (teamwork product)
(Bottom) Perspective view
Interacting narrations on the boundary on the island of Ioannina

Diploma Thesis - Aristotle University of Thessaloniki (AUTH)
location: Ioannina, Greece
project type: academic (Architecture-Landscape architecture)
work type: individual work
year: 2014-2015
supervisor: Alexandra Alexopoulou

On the northwest of a preserved settlement, of a coniferous forest and a family of reed, a rock, a boundary between the lake Pamvotis and the hinterland of the island of Ioannina, receives and gives meaning by new to human existence through a different understanding of the “genius loci”. A spatial narration, inside, outside and close to the boundary, gets shaped by a path articulated by building types and building non-types.

The study uses the architectural elements in such a way as to redefine the “genius loci”. The path is formed through a typological analysis of the spatial qualities traced, natural or man-made.

The rock is treated as a space-volume of distinct geometric features and a peculiar section. In its core, an environmental education center is placed as a room-in-room penetration. The building’s axis follows the rock’s symmetry axis and distributes the horizontal and vertical movements. The volumes’ typology and scale follow those of the buildings of the preserved settlement integrating into the island’s physiognomy.

**Mediterranean Mimar Sinan Prize 2016 Distinction, Istanbul, Turkey**
**Published in KooZArch / The Architectural Review / Greekarchitects.gr / Archfolios / FreeArchBook**
**Presented at the Architecture Lecture “Στο τέλος της μικρής μας πόλης...”, Ioannina, Greece**
**Exhibited at “Mediterranean Mimar Sinan Prize 2016” Exhibition, Istanbul, Turkey, and at “Horizons” Architectural Exhibition, Ioannina, Greece**
road network

preserved settlement
topography

topography’s intensity
spatial introversion

vegetation species

reeds’ chronological change

built typologies
existing boundaries and textures

Study area analysis
rock’s geometry

topographical relations
relation of spatial uses
education
information
administration
cafe

Perceptive analysis-Path formation
“Symmetry Sentience” considers materiality and form as a unified whole and investigates how membranes’ curvature and translucency can define both the architect’s and the user’s architectural understanding by new.

In this program, “partition elements” are asked to be set invalid and reshaped by a new theoretical and design context. It integrates manufacturing techniques and a theoretical background based on computational space, machinic control and kinetic design.

“Interlace”, as the final product is named, gets formed after experimenting on the flexible nature of tensile fabric (lycra) combined with wood veneer.

The final 1:1 structure, thus, is a complex system of intricately crossed wood veneer stripes that shape the frame for the lycra-covered components which interact with the structure based on the users’ proximity to it. There are two rotation axis structuring the movement of the interactive components while the triangular geometry of each of the stable components enhances the prototype’s stability. Both materials are energized by the users’ motion and real-time reactions creating thus a “living” structure.
Prototype component (teamwork product)

Joinery

1:1 Components (teamwork product)

Movement simulation (teamwork product)

Prototype as a canopy (individual work)

Prototype as a canopy (3D printed model)
(Top) 1:1 Prototype as a partition (teamwork product)

(Bottom, Left) Elevation (by team)

(Bottom, Right) Top view (by team)
The Pier

National architectural competition entry: Souda Ferry Terminal
location: Crete, Greece
project type: professional (Architecture-Visualization)
work type: group work
in collaboration with: SOUTH Architects
year: September 2017

“The Pier” is envisioned as a light building-canopy filtering light while framing the panoramic view of the Cretan landscape.

The building gets articulated by the opposing fluxes of movements along the dock which create two longitudinal zones, detachable to each other while also moving-sliding along the longitudinal axis. These zones form the movement’s core between the vertical planes, as well as the transverse communication between the two canopies. The movement fluxes are defined by two lightweight canopies of an opposing slope which follows the direction of the movement.

The longitudinal development aims for multiple gradations of the spatial qualities according to the way and frequency of use and an escalation of the sites’ quality in relation with the sea, the Cretan landscape and the passengers’ movement. Thus, centers, subsections, terraces, passages and bridges are created.

Vertical sliding blinds in the West and East, as well as planting in the open, public space are combined with the uninterrupted influx of the north-eastern wind (meltemi), which is enhanced by water, planting and large pebble surfaces to ensure the summer cooling. An important element is the possibility of adding photovoltaic elements in the sloping roof to the south.

**Honorable Mention in the Competition “Souda’s Ferry Terminal”, Crete, Greece**
μήκος όλου αυτού του άξονα κίνησης, σε νέες θέσεις, σύμφωνα με το σχεδιασμό των νέων αναγκών. Μπορούν να μετακινηθούν και να αλλάξουν θέση κατά κλίμακες, κυλιόμενες κλίμακες, ανελκυστήρες, κ.ά. Κατά τη μελλοντική επέκταση, οι πυρήνες κίνησης – επιπέδων, αλλά και της εγκάρσιας επικοινωνίας μεταξύ στεγάστρων, δημιουργεί μία ενδιάμεση ζώνη, η οποία επιπέδων, αλλά και της εγκάρσιας επικοινωνίας μεταξύ ελαφριά στέγαστρα, αντίρροπης κλίσης, με την κλίση μετακινούνται - διολισθαίνουν κατά το διαμήκη άξονα. Στο χώρο, οι κινήσεις αυτές παραλαμβάνονται από δύο μήκος της προβλήτας «ΑΔΡΙΑ» και του δοθέντος γηπέδου. Κεντρική Ιδέα της πρότασης είναι η διαμόρφωση του Το κτίριο του νέου επιβατικού σταθμού του Λιμένα ΑΡΧΙΤΕΚΤΟΝΙΚΟΣ /uni0394ΙΑΓ/uni03A9ΝΙΣΜΟΣ ΠΡΟΣΧΕ/uni0394Ι/uni03A9Ν ΜΕΛΕΤΗΣ "ΣΤΑΘΜΟΣ ΕΠΙΒΑΤ/uni03A9Ν ΛΙΜΕΝΑ ΣΟΥ/uni0394ΑΣ - ΕΝ/uni0394ΙΑΜΕΣΗ ΦΑΣΗ"
(Top) Perspective southwest entrance view
(Bottom) Restaurant Perspective exterior view
(Top) **Floor plans**

(Left) **Section’s technical detail plan**

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**SOUTH Architects**

- Photovoltaic panel
- Roof lining panel
- Iron HEB300
- Iron L100x150x10
- False ceiling: painted aluminum
- False ceiling: soundproof
- Sliding metal sun-shade
- Iron SHS 100x5
- Iron “T”
- Aluminum frame
- Riser: painted aluminum air conditioning ducts
- Level 1: cast tefrazzo
- Iron panel L100x100x10
- Iron “T”
- False ceiling: painted aluminum
- False ceiling: painted aluminum exterior fixed frame: honeycomb metal/corian/plexiglass/lacquer
- Interior floor marble
- Pebble beach
- Prefabricated concrete
- Concrete slab

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**Sustainability analysis-Bioclimatic diagram**

(Middle, Right-Top) **Longitudinal section**

(Middle, Right-Bottom) **Northeast elevation**

(Bottom, Right) **Southwest elevation**