



Amaury Retailleau

Portfolio 2023

Intern Architect

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Phone: +1 (604) 655-7213

Portfolio: www.amaury-architect.com



I am highly motivated and a fast learner with a quick capacity for adaptation to new situations and environments. My passion is the creation of experiences, feelings as well as places of life for each user; therefore, residential and public projects are what drive me.

I believe in multidisciplinary collaborations as well as the harmonious and respectful merging of creations with the environment in order to achieve high-performance or smart buildings



PROFESSIONAL EXPERIENCE



AIBC Intern Architect - Chernoff Thompson Architects *architecture company*

www.cta.bc.ca (Vancouver - Canada)

Oct 2021 to present

- Participation in various roles from schematic designer, coordinator with consultants and contractors to project manager, on numerous projects from labs, clinics, educational institutions, fitness centers, offices and governmental institutions.
- Customer needs, site and environmental analysis.
- Schematic design, elaboration of plans, sections, elevations and 3D models.
- Building code analysis, specifications, material research.
- Construction documents checking and coordination.
- Preparation of administration/construction documents, building permits, document checking, coordination, schedules, NOPC, deficiency lists and contract awards.

Architect Assistant - SISPEO *architecture company*

www.sispeo-archi.com (Paris - France)

Jul - Sep 2019

- Design and preparation for 3D models before rendering, and creation of virtual tours for clients
- Participation in small public projects, such as the design of a local commercial center
- Design and elaboration of plans, sections and elevations for city approval
- Collaboration with manufacturers and constructors on designs and projects planning

Architect Assistant - Imagine Architecteurs *architecture company association*

www.architecteurs.fr (Paris - France)

Apr - Jun 2019

- Design and parametric architecture configuration to meet the composition of a facade renovation
- Participation in small private projects, such as the renovation of a Parisian penthouse and small residential buildings
- Design and elaboration of plans, sections and elevations for city approval
- Preparation of the portfolio gathering all companies of the association for an annual presentation

Junior Architect - Lynk Afrique *restaurant & lounge of Sahil company*

www.instagram.com/lynk.bonapriso (Douala - Cameroon)

Sep 2016 - Nov 2017

- Elaboration of client needs and preparation of sketches
- Preliminary studies (climate, solar impact, acoustic, and human flow)
- Elaboration and preparation of plans, sections, and elevations for local architects and construction manager
- Construction site checks

Architect Assistant - Architects 49 *architecture & interior design company*

www.a49.com (Chiang Mai - Thailand)

Jun - Aug 2015

- Collaboration in the design of a traditionally styled restaurant
- Elaboration of the 3D model for a motorcycle school based on preliminary plans
- Design of the first sketches and composition for a retirement home with healthcare facilities
- Proposal for a colour code of the downtown streets asked by the city mayor to increase the image of Chiangmai for tourism

Site Manager Assistant - Kachatarn *construction company*

(Phrae, Thailand)

Mar - May 2015

- Assistant of the principal architect in his role of construction site manager for a provincial villa
- Design of a place that could bring the whole family of the villa together, including the requests for a pergola, a pool, and an outdoor kitchen that could fit several guests

PERSONAL AND ASSOCIATIVE



Project Abroad (humanitarian association)

Reconstruction of a primary school after an earthquake in 2015 (Katmandu, Nepal)

Mar 2016

WakeUp! Association

Aid for entertainment and distribution of gifts for hospitalized children and fundraising and collecting of second-hand books to create a library in Malaysia. (Newcastle, Australia)

Apr 2011

ACADEMIC AND CERTIFIED TRAINING



Post-Disaster Building Assessment taring - AIBC
(Vancouver, Canada)

Sept 2022

Passive House Training - Passive House Canada
Classes 120A, 120B & 120B certified (Vancouver, Canada)

Mar to Jun 2022

BC Energy Code Modelization - JRS Engineering, AIBC (Vancouver, Canada)

Apr 2022

Green Roofs NutsN'Bolts - Next Level Stormwater Management, AIBC (Vancouver, Canada)

Mar 2022

Master of Architecture - University of Laval
Physical Environment specialization (Québec city, Canada)

2018-2020

ArchCAD advanced Training - Abvent (Atelier Hermes)
(Geneva, Switzerland)

Sep 2016
Jan 2017

Bachelor of Architecture - Atelier Hermes
Civil Projects specialization (Geneva, Switzerland)
Honors for remarkable final project

2016-2017

Bachelor of Architecture 2nd year - Athenaeum
Architectural Tools specialization (Renens, Switzerland)

2015-2016

Bachelor of Architecture 1st year - Swiss Design Center
History of Art specialization (Lausanne, Switzerland)

2013-2015

TOOLS



3D printers	advanced	3D Scanners	advanced
Graphic tablets	advanced	3-axis digital milling machine	advanced
Laser Cutter	advanced	Drones	intermediate

PERSONAL CHARACTERISTICS



Strengths

precise
enthusiastic
persistent
conscientious
curious

Interests

construction techniques
cities and their complexities
3D creation
nature and humanity
technological innovations

Values

fulfilment
discovery
altruism
family
inquisitiveness

References available upon request

PRACTICAL SKILLS

Production of Sketches & Models	advanced
Preparation of Preliminary Studies	advanced
Customer Needs Analysis	advanced
Preparation of Plans & Specifications	advanced
Project Management	intermediate
Expense Management	intermediate
Supervision of Construction Sites	intermediate
Development of Architectural Programs	intermediate

SOFTWARE

ArchiCAD	advanced
Revit	advanced
SketchUp	advanced
AutoCAD	advanced
Grasshopper	advanced
Lumion	advanced
Enscape	advanced
Artlantis	advanced
TwinMotion	advanced
Adobe Creative Suite	advanced
Microsoft Office	advanced
Rhino 3D	intermediate
Vray	intermediate
VectorWorks	intermediate
3DS Max	novice

LANGUAGES

French



English



Italian



German



PROFESSIONAL & PERSONNAL

CHERNOFF THOMPSON ARCHITECTS

Place Vancouver - Canada
Supervisor Vjekica Sucic Hruskovec

5



SISPEO & IMAGINE ARCHITECTEURS

Place Paris - France
Supervisor 1 Florent Falize
Supervisor 2 Christophe Potet

7



LYNK AFRIQUE

Place Douala - Cameroon
Client Sahil Company

9



ARCHITECTS 49

Place Chiang Mai - Thailand
Mentor Viyada C. Wongwigkarn

10



KACHATARN

Place Phrae - Thailand
Mentor Prachet Pongpisuthinan

11



THE MODERN GARDEN CITY

Place Brussel - Belgium
Academic Advisor Philippe Donzé
Partner Karl-Anton Baumann

12



THE ARTHOUSE

Place Lausanne - Switzerland
Academic Advisor Mario Borreggine
Partner Phimrat Panomkwan

13



ACADEMIC

URBAN UTOPIA

School University Laval
Academic Advisor GianPiero Moretti
Thesis project

15



REVIVE

School University Laval
Academic Advisor GianPiero Moretti

17



THE THERMAL PEARL

School Atelier Hermès
Academic Advisor Mario Borreggine
Bachelor project

18



IL TEATRINO

School Atelier Hermès
Academic Advisor Mario Borreggine

19



HAMLET IN THE NATURE

School Athenaeum
Academic Advisor Anne Luyet

20



THE POOL STATION

School Swiss Design Center
Academic Advisor Philippe Donzé

21



LA LUNA RESTAURANTE

School Swiss Design Center
Academic Advisor Philippe Donzé

22



Place:
 Vancouver - Canada
Supervisor:
 Vjekica Susic
 Hruskovec

My role for the company was as an AIBC intern architect. As an intern, I had to help the team with various tasks:

- Participation in various roles, from schematic designer, coordinator with consultants and contractors to project manager, on numerous projects from labs, clinics, educational institutions, fitness centers, offices and governmental institutions.
- Customer needs, site and environmental analysis.
- Schematic design, elaboration of plans, sections, elevations and 3D models.
- Building code analysis, specifications, and material research.
- Construction document checking and coordination.
- Preparation of administration/construction documents, building permits, document checking, coordination, schedules, NOPC, deficiency lists and contract awards.



Renovation of a Classroom and labs for a University in British Colombia



Creation for a Covid testing clinic in the state of Washington (US) - Graphics: Andrelle Jingco



Renovation for a private lab/Office in Bristish Columbia - work with interior architect: Se-Ryoun Hwang



Creation for a private clinic in British Columbia - work with interior architect: Arturo Origel



Renovation for a private lab/Office in Bristish Columbia - work with interior architect: Se-Ryoun Hwang



Creation for a private clinic in British Columbia - work with interior architect: Arturo Origel



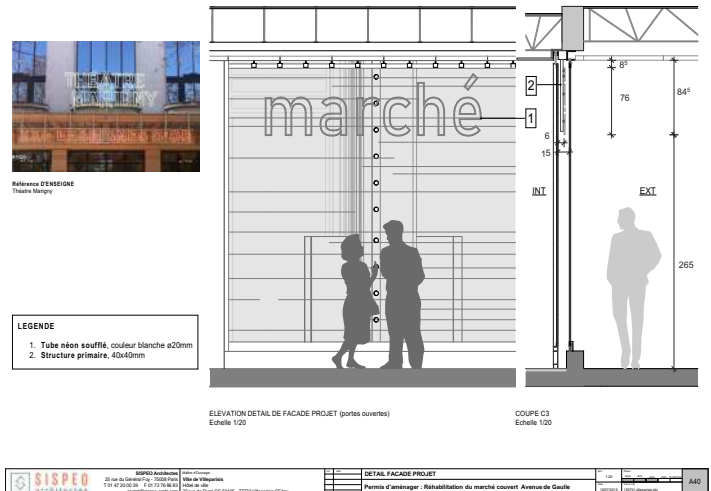
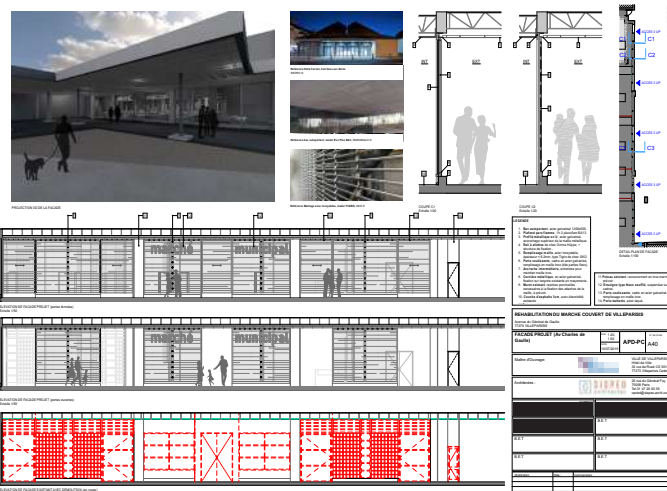
SISPEO
architectes

Sispeo

Place:
Paris - France
Supervisor:
Florent Falize

My role for the company was as an assistant architect. As an intern, I had to help the team with various tasks:

- Design and preparation for 3D models before rendering, and creation of virtual tours for clients
- Participation in small public projects, such as the design of a local commercial center
- Design and elaboration of plans, sections and elevations for city approval
- Collaboration with manufacturers and constructors on designs and projects planning



Place: Paris - France
Supervisor: Christophe Potet

My role for the company was as an assistant architect. As an intern, I had to help the team with various tasks:

- Design and parametric architecture configuration to meet the composition of a facade renovation
- Participation in small private projects, such as the renovation of a Parisian penthouse and small residential buildings
- Design and elaboration of plans, sections and elevations for city approval
- Preparation of the portfolio gathering all companies of the association for an annual presentation

Dimension des tiges perforées (en mm)

- A : 115x42
- B : 103x42
- C : 111x42

1: Poutre 60x10 acier
2a: Poutre de fixation acier (carré)
2b: Poutre de fixation acier (carré)
3a: Cornière d'arrêt acier
3b: Cornière d'arrêt acier
4: Tige perforée 3 en 1

Élévation petit balcon - Echelle 1/30

Élévation grand balcon - Echelle 1/30

DETAIL GARDE-CORPS - Echelle 1/5

Crépe A4 - Echelle 1/10

DETAILS GARDE CORPS

Descriptif des motifs de tôles:
 Acier thermolaqué blanc
 Epaisseur 3 mm
 Perforation dégradée aléatoire de 4 et 6mm de diamètre
 Voids total de 23%
 Distance minimale entre perforations de 16mm
 Écartement du bord des tôles de 40mm

Référence: Tôle perforée crepusculé, DAMPERED
 Catégorie: Mail perforation outillage - SMA 100 01



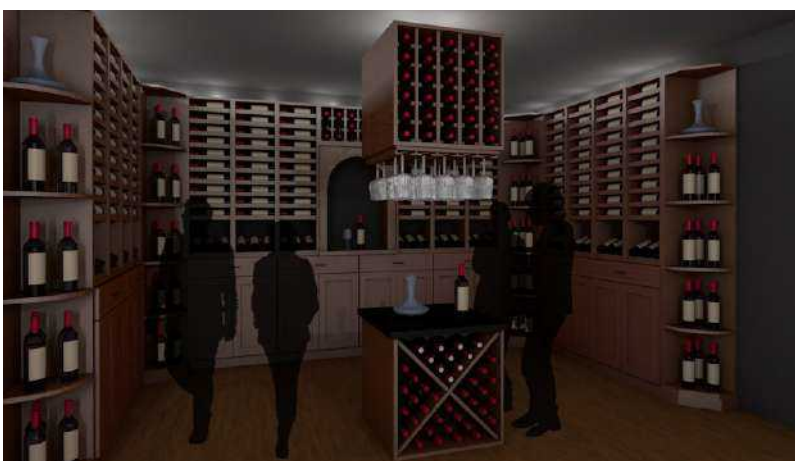


Lynk Afrique

Place: Doual - Cameroon
Client: Sahil Company

My role for the company was as a junior architect, and the tasks for those small projects were:

- Elaboration of client needs and preparation of sketches
- Preliminary studies (climate, solar impact, acoustic, and human flow)
- Elaboration and preparation of plans, sections, and elevations for local architects and construction manager
- Construction site checks

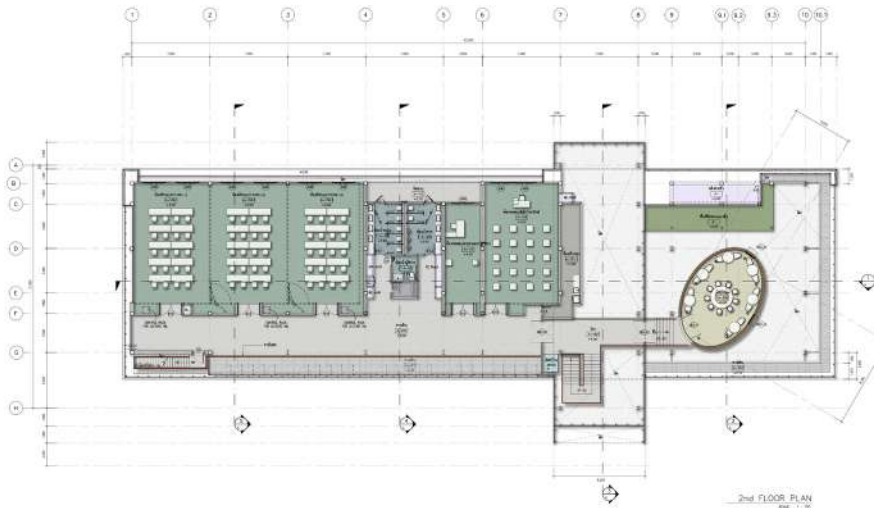


Place:
Chiang Mai - Thailand

Mentor:
Viyada C. Wongwigarn

My role for the company was as an assistant architect. As an intern, I had to help the team with various tasks:

- Collaboration in the design of a traditionally styled restaurant
- Elaboration of the 3D model for a motorcycle school based on preliminary plans
- Design of the first sketches and composition for a retirement home with healthcare facilities
- Proposal for a colour code of the downtown streets asked by the city mayor to increase the image of Chiangmai for tourism





Kachatarn

Place: My role for the company was as a site manager assistant:

Phrae - Thailand

Mentor:

Prachet Pongpisuthinan

- Assistant to the principal architect in his role of construction site manager for a provincial villa
- Design of a place that could bring the whole family of the villa together, including the requests for a pergola, a pool, and an outdoor kitchen that could fit several guests

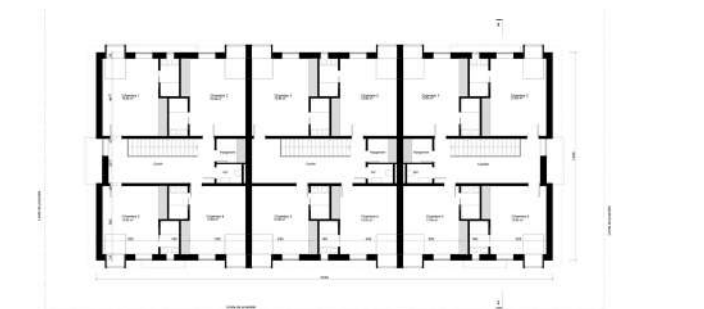
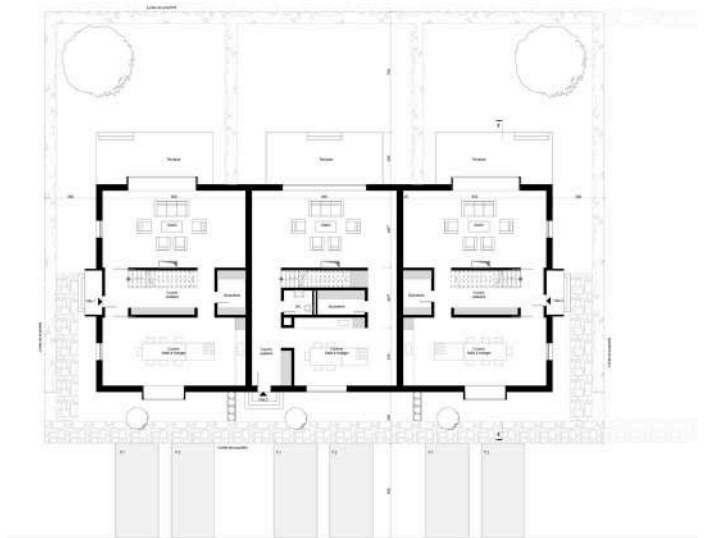
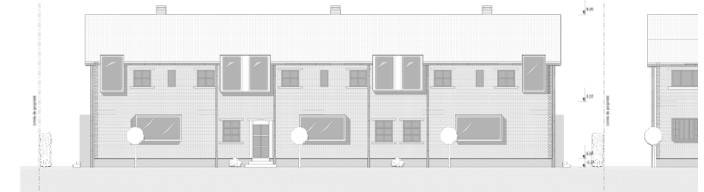




M Modern Garden City

Place: Brussel - Belgium
Academic Advisor: Philippe Donzé
Partner: Karl-Anton Baumann

Personal project for an architectural competition:
 - Creation of three adjacent houses in a district of Brussels reusing the principles of the garden city style of this post-war suburb.
 The three villas' internal flowchart work similarly, despite the various constraints. Thus, making a complete architectural project mixing modernity and simplicity to a new Garden City style.



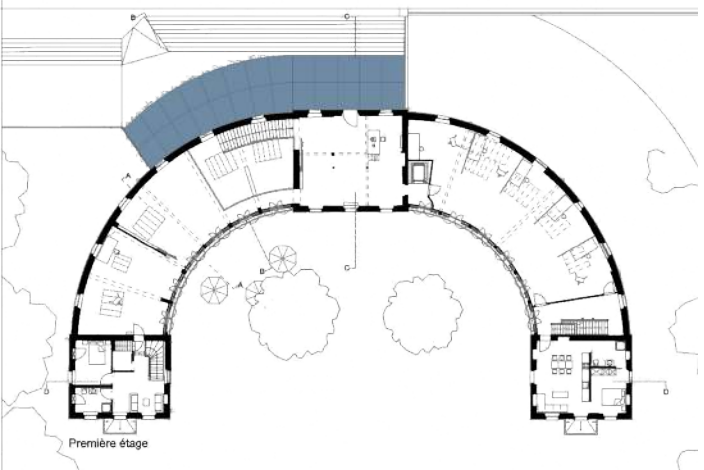
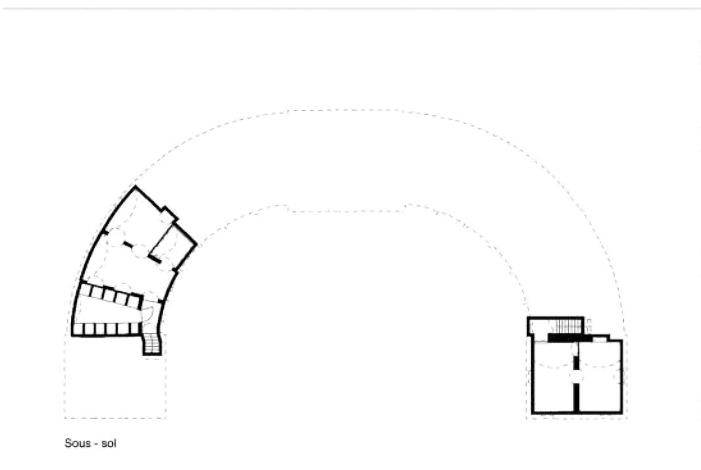
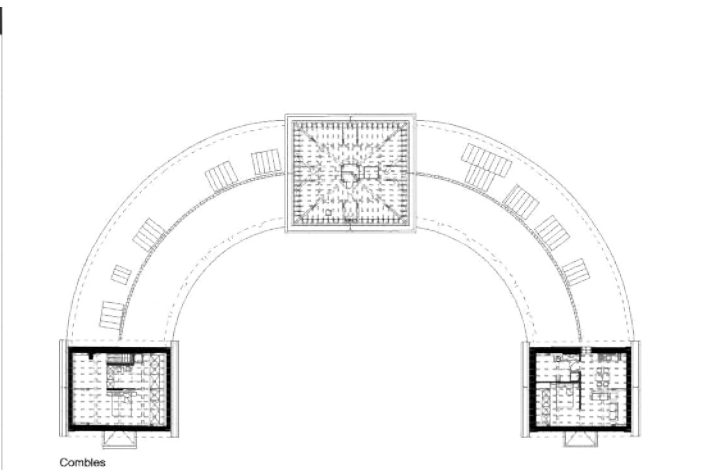


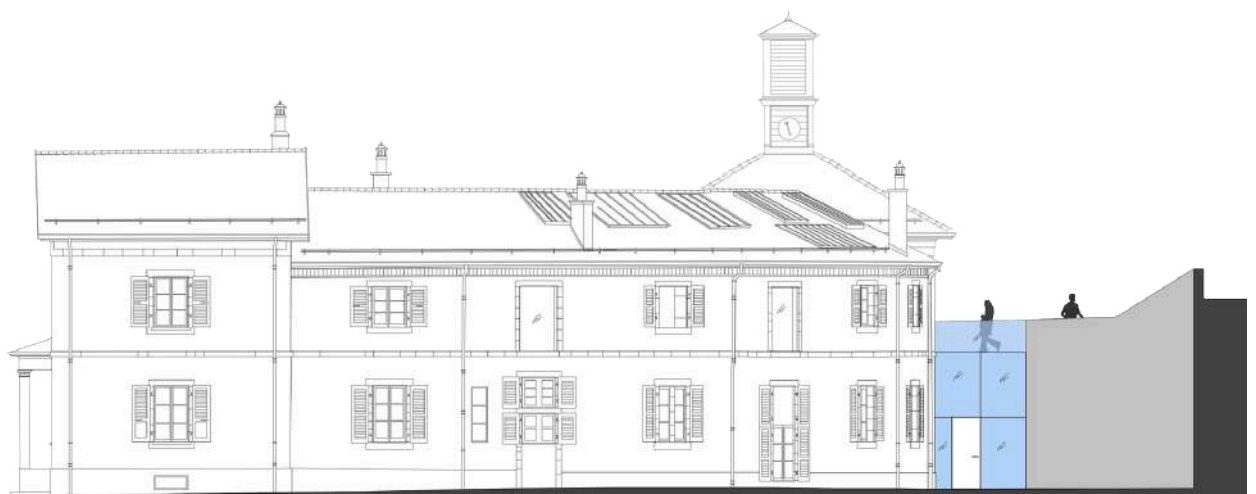
The Arthouse

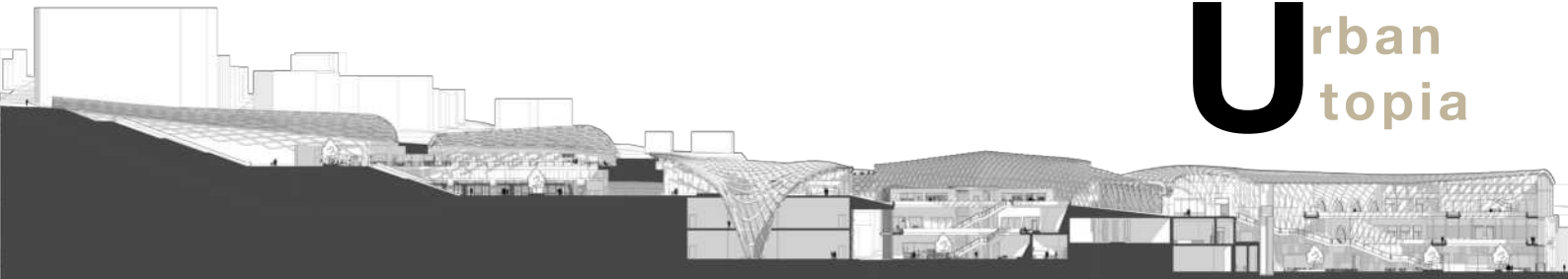
Place: Lausanne - Switzerland
Academic Advisor: Mario Borreggine
Partner: Phimrat Panomkwan

Personal project for an architectural competition:
 - Rehabilitation of an old stable into an artists' studio with a restoration part, an art gallery, and a residential part in the park of Mon Repos in Lausanne, Switzerland.

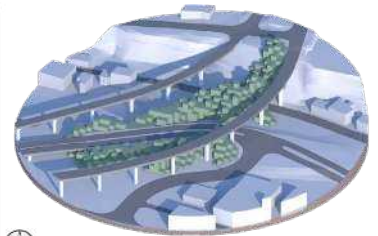
Originally a gathering of vineyard parcels in the early 18th, the park gradually took on its current appearance completed with stables, a farm, an orangery (which would become the studio of the sculptor Yves Dana in 1987), as well as a Neo-Gothic tower. Therefore, the goal was to have modern touch in an old frame and reuse the compartments of the old stables.





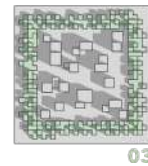
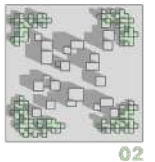


**University Laval
Thesis Project
30 weeks
Academic Advisor:
GianPiero Moretti**



Urban Utopia, or the dream of reclaiming urban wasteland combining an abandoned project of a motorway tunnel left untouched since the end of the 1970s, and the plot of the Îlot Fleurie in an attractive and strategic part of the city center remains a theoretical demonstration of the possibility of reclassifying urban voids in the center of Quebec City and countering the effect of winter devitalization.

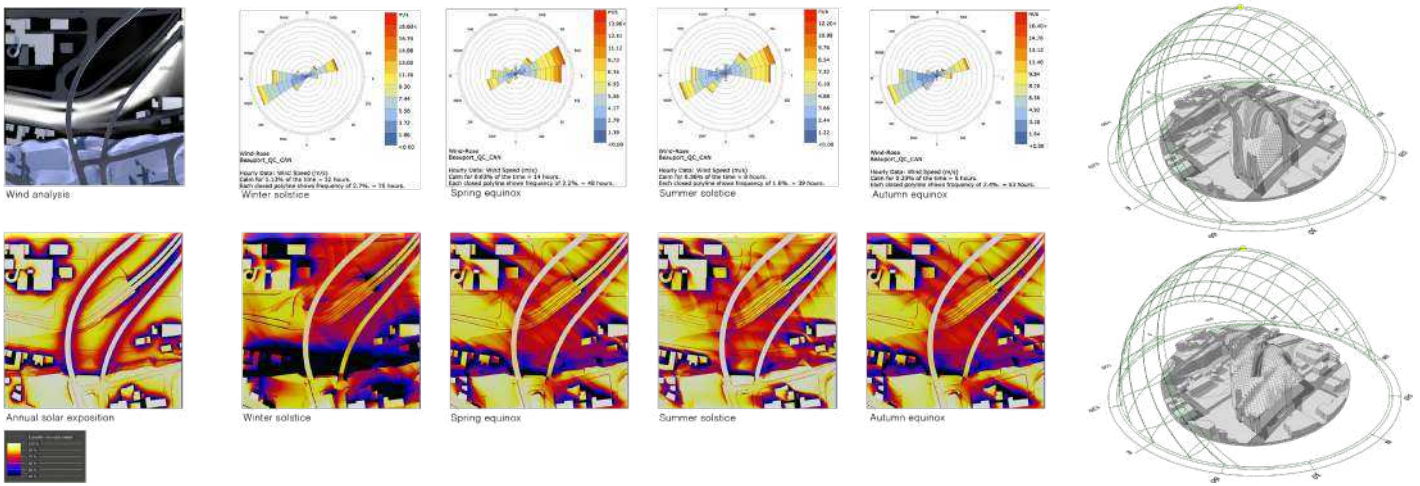
This project aims to reweave the space to reappropriate the void while creating a local microclimate in order to meet the need for protection against the harsh local climate and to ensure seasonal independence for the hosted activities.



In addition, it advocates the sustainable reappropriation of these wastelands through an architectural concept aimed at maximizing their potential according

to a mix of uses and reconnections to their surrounding neighbourhoods. Thus the Urban Utopia project is intended to be an internal and external architectural gesture alive throughout the year, combining places of transition, relaxation, meetings and exchanges.





Analysis of the wind velocity and the tunnel effect, solar exposure, and the solar envelope of the site

The project is located on the plot of the Îlot Fleurie in the Saint-Roch district, an urban wasteland abandoned by the government, whether the Ministry of Transport manages the networks on a regional scale or the municipality that operates the networks throughout the city. This plot is still controversial today but is considered a meeting point between the Higher and Lower Town.

In addition, the site contains some significant weather constraints, such as a configuration creating a tunnel effect (speed-up effect of the winds) and problematic solar exposure. Such conditions had to be taken into account in order to develop such a livable place.

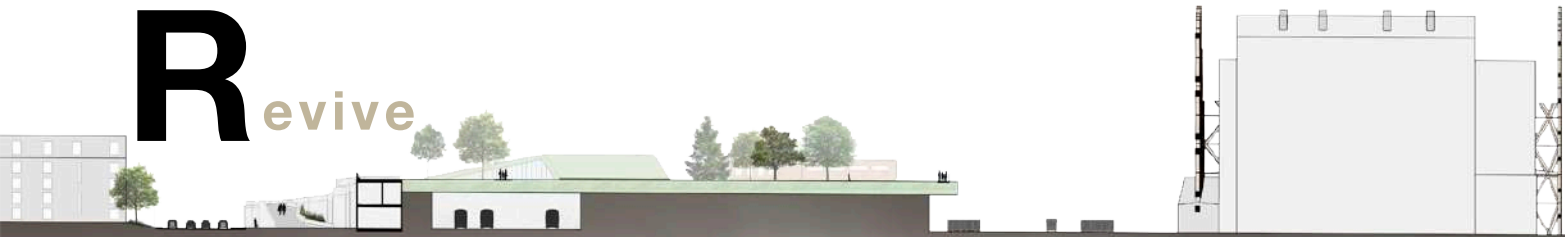


This graduation project proposes a reflection on the requalification of urban voids in downtown Quebec in order to promote their usefulness and counter the underuse of these during the winter seasons. Furthermore, it tends to stimulate the social reappropriation of these urban fragments abandoned during the urban collective evolution to promote the seasonal independence of activities, emphasizing the quality of life during winter.

It also aims to emphasize the essence of neighbourhood life by reappropriating the place and by the design of contemporary architecture advocating an update and enhancement of the site's qualities.

It finally communicates a position on the importance of soft and public transport in Quebec, proposing a project connecting to the surrounding neighbourhoods. The goal is to create a catalyst of posterity applied to the combination of the place of the Îlot Fleurie and the project of the motorway tunnel abandoned since the end of the 70s with their district. A challenging, controversial place which neverending social and political debates concerning it still lead to an uncertain future.

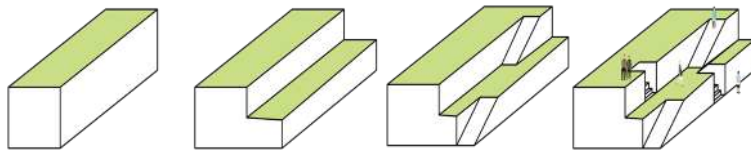
Revive



University Laval
16 weeks
Academic Advisor:
GianPiero Moretti

This creation is part of a more significant prospective urban project asked by the city of Québec to reconnect several districts disconnected by an industrial pole, as well as create an improvement of this industrialized district. The community of Limoilou in Québec city is closely related to its industrial pole and the fact that the city has expanded around it. Consequently, several districts are disconnected, with the inhabitants having to circle the industrial community to go from one to another. Furthermore, like in many cities, the industrial district has a bad reputation for the inhabitants of Québec city. This place is seen as a polluted area that many people try to avoid.

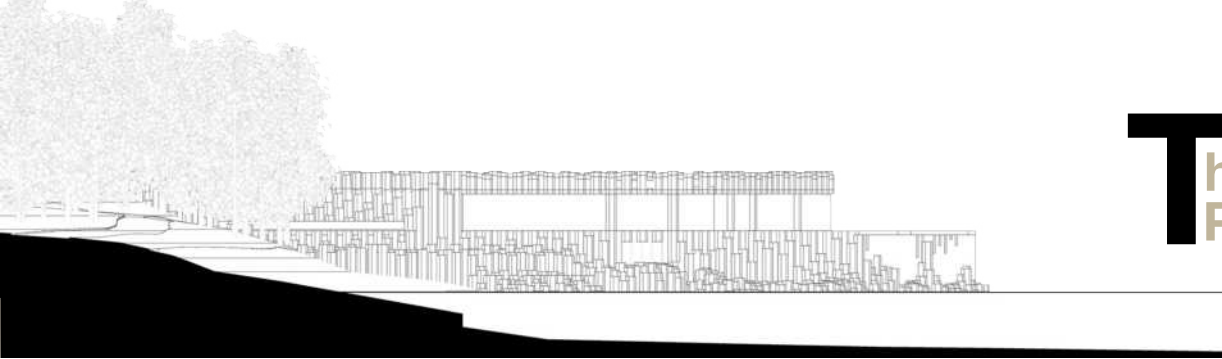
The main goal asked by the city was to improve the way the incinerator (blue on the map) and its surrounding are seen by creating an explanation center for the schools and other visitors to come and understand more about our impact on the environment and reconnection of the districts by improving the quality of life and needs on the border of the industrial community.



Creation of a topography that would overlay the train tracks and cover all the industrial parts of the district. Also, the use of this topography to create an urban park to promote active transportation from one district to another and to reconnect the attractive poles in this area.



The thermal Pearl



Atelier Hermès
Bachelor Project
16 weeks
Academic Advisor:
Mario Borreggine

This project is the creation of thermal baths near Lake Geneva on one of the banks of the city of Geneva. The history of Geneva is closely associated with its Lake, but the banks have not been modified since 1930. Consequently, this created insufficient bathing areas, with docks and beaches too congested yearly; these banks have been the subject of many critics and architectural competitions for several years. The place site is on Lake's Pearl Park, named because of its sunny location, panorama overlooking the Alps, and its isolation from the noises of the city.

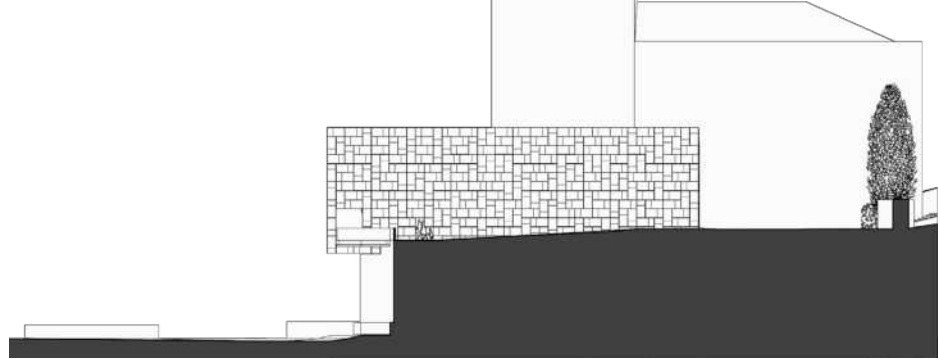
The goals were to promote bathing, develop relaxing spaces, multiply meeting places and use the bank of the lake throughout the year while keeping the area's identity.



Use of the land's elevation to integrate the building into the park's natural setting by transforming the roof into a panoramic esplanade. Use and synthesize the principle of the volcanic formation of the Giant's Causeway located in Ireland (see photo above) by creating a hexagonal module structure, which would be used as a breakwater and pattern to the building for a naturally visual design as well as sturdy construction.



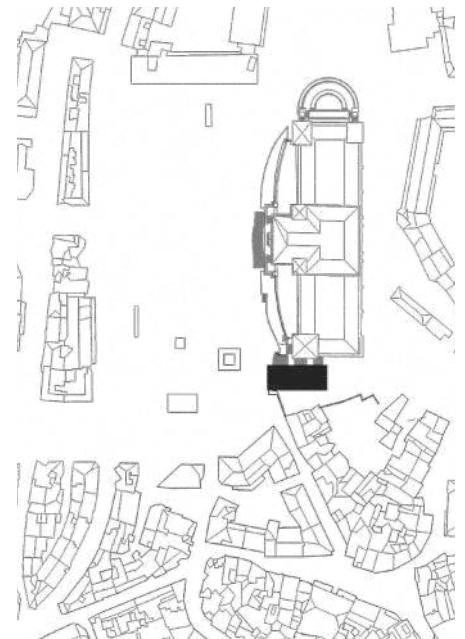
L Teatrino



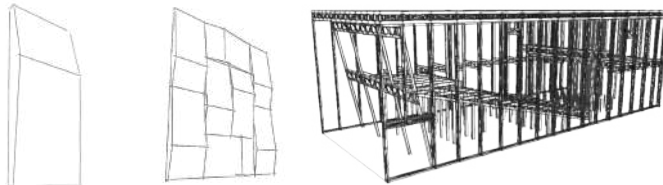
Atelier Hermès
8 weeks
Academic Advisor:
 Mario Borreggine

Creation of an international puppet theatre on the Esplanade de la Madeleine in Lausanne, Switzerland.

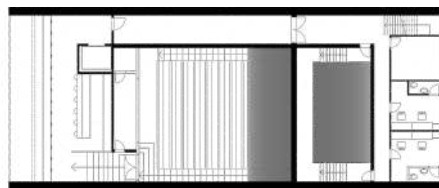
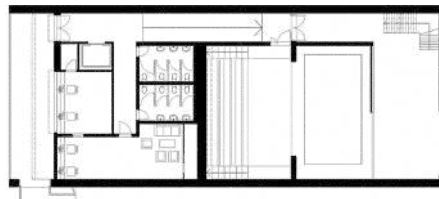
The place was built between 1898 and 1906, at the same time as the Palais de Rumine, which is adjacent to it. Therefore, this esplanade represents a physical and temporal transition between the modern place in front of the Rumine Palace and the old town of Lausanne, located on the top of the hill. The goal was to have a contemporary touch in an old frame, therefore, creating a monolithic object cantilevered from the esplanade to form a highlighted symbol. The project is based on a container's minimalist symbol and properties, using the front facade as a screen at night to promote shows or shadow plays.



After analysis, the proximity to the palace prohibits the possibility of digging too deep, so the internal structure would be metallic to lighten the construction and for easier distribution of loads. Using internal acoustic panels based on a sound-absorbing material module would give acoustic optimization during the shows, and alternating this module would create a minimalistic indoor and outdoor pattern.



Sketches of the module and the structure



Hamlet in the nature



Athenaeum
16 weeks
Academic Advisor:
 Anne Luyet

The project is the densification and urban improvement of the Palézieux-Gare village (Switzerland) by creating a whole district which would densify the existing hamlet (white buildings on the maps below).

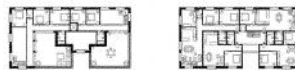
The town has many advantages due to its closeness to the countryside and easy accessibility and direction to neighbouring cities. Also, Palézieux-Gare hamlet unofficially plays the regional and inter-cantonal center role due to its geographical situation on a public transport axis. Therefore, creating a neighbourhood with various densities of buildings would offer a functional social mix and improve the quality of life in this environment.

The goal is to preserve the landscape and rural context of the region's environment for the fauna and flora, but also for the development and distribution of future buildings.

The idea is also to focus on a predetermined part of the plots in order to see the potential expansion.



Example of the Low density building 1.0



Example of the mid density building 1.0



Example of the mid density building 1.2



Example of the high density building 1.0



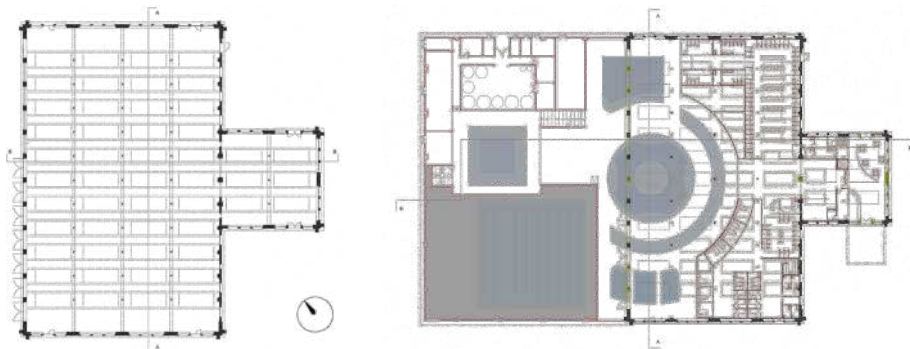
The pool Station



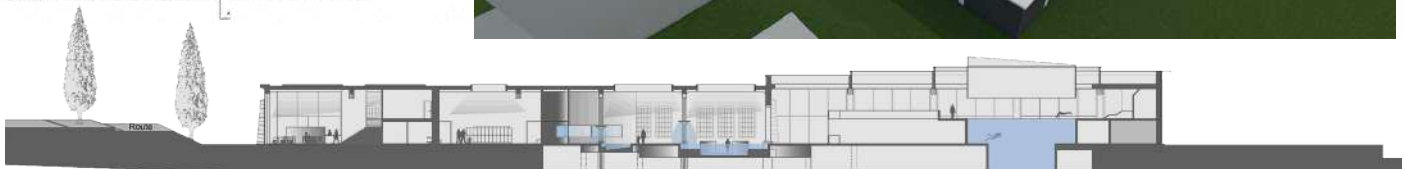
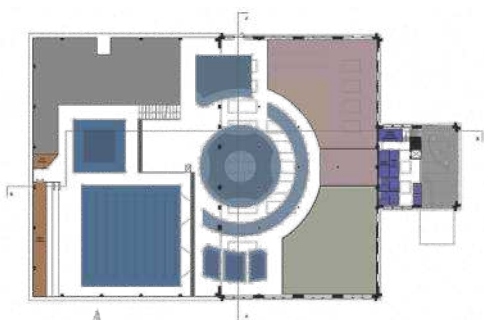
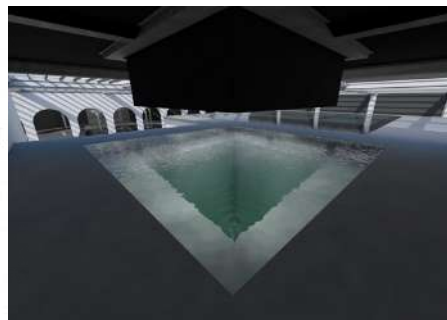
Swiss Design Center
8 weeks
Academic Advisor:
 Philippe Donzé

The project rehabilitates a railway maintenance center into an aquatic center in Renens, Switzerland. The building is a former railway depot dating from 1875. It is an old industrial building mostly made of reinforced concrete. It benefits from several skylight openings and a good contribution of side light due to the numerous facade openings.

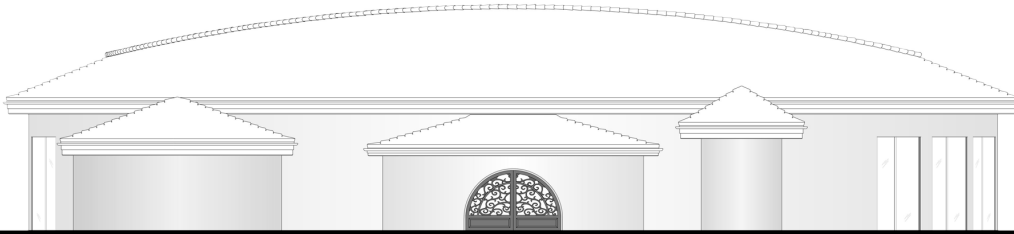
The goal was to reuse the railway center's aesthetics to remind the building's old function by keeping the ceiling height, the hangar door openings designed for train sizes, the zenith openings, and the infrastructural poles. The idea is to keep the main ambience of the old railway center in the aquatic center and create a contemporary touch in an old frame. Then the modern extension of the building would directly be attached to the old one by creating zenithal openings above the diving pit to amplify the light for the divers going back to the surface.



The plan of the original building and the modifications



«A ruin never returns entirely to the past. By the fact that it remains rooted in the ground and seen by men, it is an object of reflection, it inspires feelings. His life continues to be steeped in history» - Camille Jullian

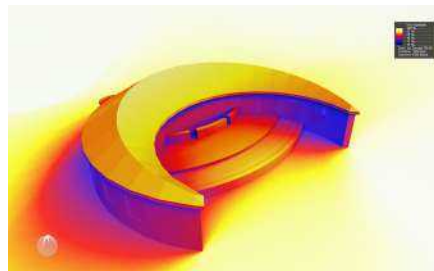
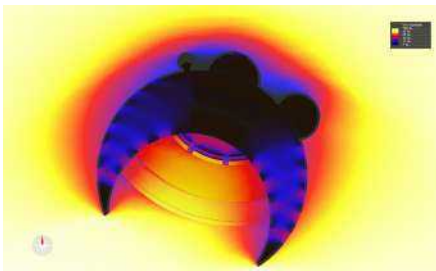


Swiss Design Center
8 weeks
Academic Advisor:
 Philippe Donzé

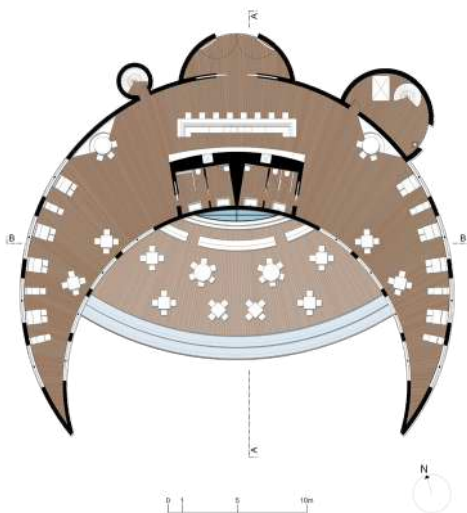
The project is creating a restaurant on the esplanade of Montbenon in Lausanne, Switzerland. The Esplanade is a park located in the city of Lausanne. It includes the Casino Montbenon (Swiss Film Archive), the Montbenon Courthouse and a statue of William Tell. The square was enlarged in 1962 by constructing a five-story parking garage attached to the hillside. The square now extends on the car park's roof and ends with a terrace with a panorama of Lake Geneva and the Alps.

The idea is to use the esplanade location overlooking Lake Geneva and the mountains for a panoramic view from the restaurant.

The combination of the sun exposition of the plot and the natural course of the sun for defining the architectural form of the restaurant resulted in a moon-shaped aesthetic. This shape maximizes solar exposure and gives way to the possible use of photovoltaic panels on the roof to improve the restaurant's annual energy consumption.




Analysis of the indoor and outdoor sun exposure




**«Which one of my projects is my favorite?
My next one»
- Frank Lloyd Wright -**

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