



*"Making Architecture and Design attainable & equitable"*

BITARCHITECTS SPRING 2023 INTERNSHIP PORTFOLIO

## Table of Content

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### I. INTERN INTRODUCTION

### II. ARCHITECTURE PROJECTS

A- 925 Apartment Interior

B- Thornburg Addition & Remodel

C- Mobile Food Facility II

### III- WRITE UP TASKS

1. What will you bring to the table at this Internship
2. What will you acquire from this Internship?
3. What is APA Citation?
4. What are your architectural strengths?
5. Worldwide Architectural Landmark
6. Interior designer whose work inspires me
7. What makes a good employee/intern in a company?
8. What can an architect/interior designer can be
9. Light Pendant reflected in different expressions and moods
10. What has this internship taught you in the first month?
11. Pictures of forms and shapes to agree and disagree
12. Do colors and patterns play any role in an interior space?
13. Do textures and patterns play any role in an interior space?
14. Does light play any role in an interior space?
15. Do you think balance & harmony play any role in an interior space?
16. Do you think rhythm and proportion play any role in an interior space?
17. Do you think Emphasis, Hierarchy & Variety play any role in an interior space?
18. Career expectations
19. How digitization does impacts architecture
20. How can architects have a role in forming and expanding the global met averse?
21. What have you learned in the second month?
22. What are your aspirations until the end of the internship?
23. What new strengths have you discovered about yourself during this internship?
24. Mood Board
25. Research Task

## Table of Content

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### IV- Photos Of My Country

- A- Something Traditional
- B- Shadows
- C- Roof View

### V- GUESTS MEETINGS

- A- Camille Chamoun

### VI- CONCLUSION

## Daniel da Silva Leal Medeiros

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### **Resilient, Adaptable, Patient, Attentive**

Mr. Daniel Leal has a bachelor's degree in Architecture and Urbanism from the University of Fortaleza, Brazil. Mr. Leal has overall 10 years of experience collaborating with other relevant professionals in three countries including Brazil, Portugal, and the USA, contributing to the city of Porto with many residential/commercial projects which are helping to grow the city's economy. Mr. Leal is also known for his resilience and multicultural skills which helped him to be more adaptive and learn new construction technologies.



## 925 Apartment Interior

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**Project Date:** 02/06/2023

**Project Type:** Residential: 1 Family House | Remodel

**Project Owner:** 925 Apartments

### **Project Brief:**

925 Apartments are interested in having one of its apartments redesigned to fit the contemporary style. The apartment is located at the heart of Washington, DC and they would like to have a contemporary sitting area, a dining table, an office, and a nice bedroom that would fit a couple, both working professionals.

### **Responsibilities:**

Bitarchitects Team helped create a concept and create an interior design concept to comply with the client's aspirations.



## Furniture Plan



Bedroom



Bedroom



Living room



Living room

## Thornburg Addition and Remodel

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**Project Date:** 03/02/2023

**Project Type:** Residential

**Project Owner:** B. Thornburg

**Project Valuation:** 515,600.00 USD

**Project Location:** Fredericksburg, VA

**Project Brief:** Mr. and Mrs. Thornborg want to remodel their house and add a living room and gym overlooking the swimming pool in the backyard to keep an eye on their grandchildren. Bitarchitects is helping them in the design process and in creating all the required exhibits for the permit process.

**Responsibilities:**

Addition & Remodel

Thornburg Exteriors



As built



As built



Option 1



Option 1



Option 2



Option 2

Thornburg Interiors



Office



Gym



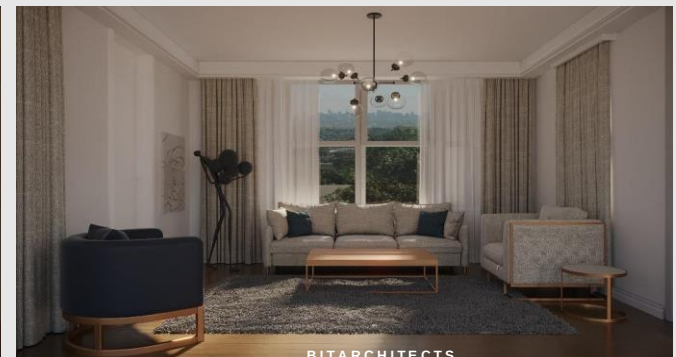
Bathroom



Bathroom



Living room



Living room

## What will bring to the table at this internship?

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**Task Date:** 02/06/2023

**Task Type:** Writing & Contemplation

- 1) Work ethic and commitment.** I promise to give this organization my full attention and will do all within my power to improve it. In order to complete my duties, I would do my absolute best and give it my all.
- 2) Techniques for handling stress.** I am able to complete tasks on time and operate effectively under pressure.
- 3) Originality.** I have a creative mindset, but I also pick things up quickly.
- 4) A cheerful disposition.** I can effectively interact with your staff and work well with others.
- 5) Capable of solving issues.** I can attest to the fact that I learn things quickly. I'm always willing to research topics and get ready for the field.

III WRITE-UP TASKS

## What will you acquire from this Internship?

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**Task Date:** 02/06/2023

**Task Type:** Writing & Contemplation

- 1) **Improve my English:** Learning English wasn't a difficult task in my life, but my challenge is to grow even more my communication and automate daily tasks, especially when it comes to architectural routines, technical terms, and also to my work colleagues.
- 2) **Learn about new methods in AEC industry:** I've studied in my college about architecture and methods throughout the history of humanity in art/architectural disciplines, but live this in the real world, sharing my knowledge as well and learning about more techniques it is always grateful and interesting to my career as architect and urbanist;
- 3) **Learn about US Building Codes:** Architecture in the US is very interesting, has a lot of history and detail. Learning about construction in US it is also learning/studying its history, so I would like to understand methods, legislation, terms and all that was necessary to create the different kinds of architecture that we have today;
- 4) **Learn with other professionals:** We have always something to learn in construction mainly we talk about the stakeholders that are directly on the construction site. Carpenters, masons, and painters have huge knowledge that is often a differential factor for having a more sustainable and economical architecture and that may not have been learned in practice in college. This could be a fatal factor to have or not have an approved project by our client, for example.
- 5) **Learn with my colleagues:** I believe that a daily routine with people with different ways of life, mentalities, and life progresses would be helpful to improve me as an architect and as a citizen/person. Different kinds of stories help us see many perspectives of life and how we can improve as human beings

## What is APA Citation?

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**Task Date:** 02/09/2023

**Task Type:** Writing & Contemplation

APA in-text citation style uses the author's last name and the year of publication, for example: (Field, 2005).

For direct quotations, include the page number as well, for example: (Field, 2005, p. 14). For sources such as websites and e-books that have no page numbers, use a paragraph number.

## What are your architectural strengths?

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**Task Date:** 02/09/2023

**Task Type:** Writing & Contemplation

All the strengths are connected.

- 1) **Experience:** I believe that growing experience in architecture is fundamental to developing and improving as Architect. Experience plus life stories plus studies can be a huge mix between a great architect and a mediocre architect;
- 2) **Adaptability:** Creating architectural designs involves always studying local variables. Legislation, weather, climate, and construction methods could be different in many places so we have to have great power to adapt to each project that is worked on;
- 3) **Patience:** Patience in studying and to understand that time plus work could create great things, relationships, works, and projects. Great things take time to happen and I believe that is very important to understand as soon as possible in the architectural profession;
- 4) **Determination:** Understanding complicated software, getting out of our comfort zone, studying our client's needs, etc. are very difficult tasks that take time, effort, and determination to get through it.
- 5) **Enthusiast in new technologies:** A great architect must always study and improve. With the advent and creation of new technologies, we must be careful and attentive to market needs

## World wide Architectural Landmark

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**Task Date:** 02/13/2023

**Task Type:** Writing & Contemplation

Casa das Canoas by Oscar Niemeyer, 1950/1054. Nature, adaptability, and conversation between the interior and exterior spaces.



Niemeyer's trademark: Curves and nature talk a lot about this house and the work of Oscar. Using natural and organic materials, Niemeyer proposes a conversation between the building and the environment around it.

III WRITE-UP TASKS

## Interior designer whose work inspires me

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**Task Date:** 02/16/2023

**Task Type:** Writing & Contemplation

**Marcio Kogan, Brazilian Architect.**

**1) Use of local materials:** Marcio has a history of adapting your architecture with the project's location. Creating beautiful landscapes in your interior design he has the ability to integrate emphasis only when is necessary.



## What makes a good employee/intern in a company?

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**Task Date:** 02/02/2023

**Task Type:** Writing & Contemplation

- 1) Good listener:** As an employee/intern you have to be a good listener. First, you have to practice listening to your superiors and then you'll be able to listen/be attentive to your client's needs
- 2) Detail-oriented:** In detail that works our difference as professionals. Being able to work properly in with a detail-oriented view of your project will permit you to focus on what can be improved or not.
- 3) Humbleness:** As long as we learn something we're capable to understand that me we know almost nothing either as professionals or from our client's head/understanding of the project. It makes necessary to be humble to realize that we have to be above our clients, our education, and our understanding of how things can work as professionals.
- 4) Always learning:** As professionals, we have to always be able to learn more and more. As architects, we're always learning new stuff, construction methods, software technologies, and cultural languages either from other professionals or from our clients.
- 5) Objective and focus speaking:** To save time and effort from our clients, colleagues, superiors, or in our workflow we have to be objective in what we want. Focus on what our clients, colleagues, and superiors want is an essential manner to see things in our daily routine as professionals.

## What can an architect/interior designer can be?

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**Task Date:** 02/27/2023

**Task Type:** Writing & Contemplation

- 1) **Entrepreneur:** Creating a construction company, interior design office, or architecture office. Participating in different kinds of projects or specializing in one niche.
- 2) **Teacher:** A teacher could be a person who has a specialization in one or two fields in the market; It requires a master's or doctor's degree.
- 3) **Consultant:** A consultant can provide your services to a company in order to improve some elements, services, and fields necessary for the company's growth in the market. This consultant can also provide your service temporarily.
- 4) **Manager:** A manager deals with a team and can provide a lot of your experience coordinating what means necessary for a project to be executed and done; Your work will be evaluated by the CEO/Senior Architect for the company.
- 5) **Drafter:** A drafter doesn't require a bachelor's degree in Architecture but it could be more well done when it's done by an architect; Your tasks include every drafting in the project necessary for a comprehensive understanding of the construction site plan.

## The Cupboard reflected in different expressions and moods

**Task Date:** 03/02/2023

**Task Type:** Writing & Contemplation



**Cupboard:** Scandinavian style cupboard -  
<https://ethnicraft.com/ie/en/p/10151455/wave-cupboard>

This kind reminds a cozy mood, able to communicate clearly about the Scandinavian style with these light materials that were chosen to design this furniture.



Vintage style Cupboard  
<https://emmajaynehome.co.uk/products/the-rutland-style-larder-cupboard>

It reminds me a French-style mood, but cozy as well.

## What has this internship taught you in the first month?

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**Task Date:** 03/02/2023

**Task Type:** Writing & Contemplation

- 1) Increasing my knowledge and abilities.** During the first month of my internship, I picked up a lot of tips and principles for architecture and interior design. I consider myself to be improving as a business professional.
- 2) A developed capacity for teamwork.** I learned how to be a better team member, which improved my participation abilities, thanks to the diversity of the team members' backgrounds and skills.
- 3. Flexibility and openness of thought.** I now have a better understanding of many viewpoints thanks to everything I've studied and done, and I now value other people's efforts more.
- 4) Time management and planning abilities.** I had to put extra effort into honing my time management skills because this internship demands them.
- 5) I've learned a lot about the states in the United States.**

## Pictures of forms and shapes to agree and disagree

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**Task Date:** 03/07/2023

**Task Type:** Writing & Contemplation

**Disagree**



22 examples of architecture without planning <https://www.elitereaders.com/22-examples-of-architecture-withoutplanning/>

**Solution** → Here we can find the problem either with a wrong choice in the plant selection by the urban/landscape design team or by creating another type of furniture/equipment for this design. Creating a larger bench or removing this existing bench and then creating an urban bib;

## Do colors and patterns play any role in an interior space?

**Task Date:** 03/08/2023

**Task Type:** Writing & Contemplation

**Agree**



**Statement:** Harmony and the right use between shapes and colors

Source: <https://www.homesandgardens.com/news/negative-space-in-interior-design>

**Disagree**



**Statement:** It seems like a random design.

Source: <https://gstile.com/blog/desinging-healthy-spaces/>

## Do textures and patterns play any role in an interior space?

**Task Date:** 03/09/2023

**Task Type:** Writing & Contemplation

### Agree



**Statement:** Integration between the texture of the rug and the ceiling brought me an uncomfortable sensation (claustrophobic, as well);

Source: BTX Video

### Disagree



**Statement:** Too much pattern and textures;

Source:

<https://www.thinkaec.com/professional-interior-design-tricks-for-decorating-small-spaces/>

## Does light play any role in an interior space?

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**Task Date:** 0313/2023

**Task Type:** Writing & Contemplation

### Agree



**Statement:** Simple and elegant use of natural light using an architectural element called “Cobogó”;

Source: [https://www.archdaily.com/175686/cobogo-house-marcio-kogan/50160f5028ba0d1598000960-cobogo-house-marcio-kogan-photo?next\\_project=no](https://www.archdaily.com/175686/cobogo-house-marcio-kogan/50160f5028ba0d1598000960-cobogo-house-marcio-kogan-photo?next_project=no)

### Disagree



**Statement:** It seems that there wasn't any intersection between architecture, structure and lighting plans. Bad position in the ceiling light;

Source: <https://br.pinterest.com/pin/381469030945866736/>

III WRITE-UP TASKS

## Do you think balance & harmony play any role in an interior space?

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**Task Date:** 03/14/2023

**Task Type:** Writing & Contemplation

### Agree



**Statement:** Balance between gold, wood and other material such iron metal.

Source:

<https://www.prostornina.com/projects/elegant-harmony/>

### Disagree



**Statement:** Exceed the use of framing at the wall;

Source:

<https://www.morrisoninteriors.com/blog/2018/10/1/5-interior-design-styling-tips-to-avoid>

III WRITE-UP TASKS

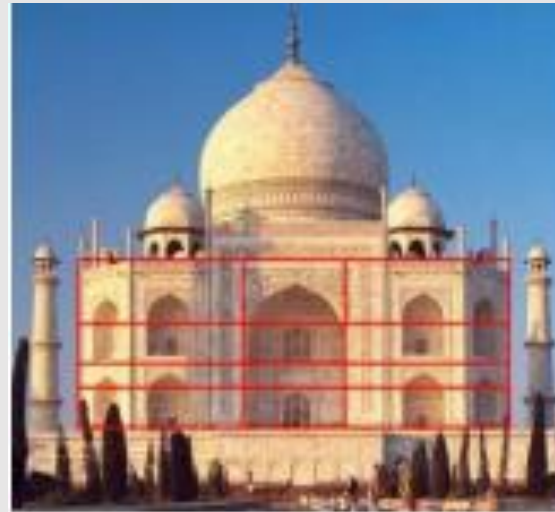
## Do you think rhythm and proportion play any role in an interior space?

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**Task Date:** 03/15/2023

**Task Type:** Writing & Contemplation

**Agree**



**Statement:** Use of math in proportion.

Source: <https://archi-narch.com/proportion-in-architecture/>

**Disagree**



**Statement:** Windows have rhythm but not a good proportion/shape

Source: <https://br.pinterest.com/isaackicks/bad-proportion/>

III WRITE-UP TASKS

**Do you think Emphasis, Hierarchy & Variety play any role in an interior space?**

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**Task Date:** 03/16/2023

**Task Type:** Writing & Contemplation

**Agree**



**Statement:** Green furniture emphasized in a white space

Source: <https://www.jeetuinteriors.com/single-post/principle-of-interior-design>

**Disagree**



**Statement:** Too much to emphasize

Source: <https://www.nppartners.net/2021/12/27/elements-and-principles-of-interior-design>

## Career expectations

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**Task Date:** 03/20/2023

**Task Type:** Writing & Contemplation

Today, March 20th, I would like to coordinate a team according to the tasks and software I've worked on in my entire career. It would be awesome to be a commander and help to coordinate everything involved in one project for a design and project team.

In that way, hopefully, I would like to coordinate a team in-distance, exactly how I've been working these last few years: working from home remotely. Also, I would like to stay studying software, and new technologies, improving my communication, and back in forth traveling to work on-site construction or to a conference to make new contacts and network.

This way would like to help improve one company by managing a team and growing as a professional from other fronts in business as well.

## How digitization does impacts architecture

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**Task Date:** 03/23/2023

**Task Type:** Writing & Contemplation

- 1) More automated tasks and fast projects:** Building Information Modelling (BIM), for example, use a lot of tasks that could be automated to gain more time and do more economical projects.
- 2) More architects studying programming languages:** Architects could help other professionals from the construction industry if they could able to understand how to automate tasks that require a basic understanding of programming languages, for example.
- 3) Each software for each demand:** Architects should be able to perform under different conditions, so they have to be able to understand a project and which tools have to be used.
- 4) Integration between every project's discipline:** BIM also uses integration, clash detection, and a lot of other components that could be useful to understand how a project could be done.
- 5) More tools require more capable professionals:** Architects should study even more to be able to use technological tools.

III WRITE-UP TASKS

## How can architects have a role in forming and expanding the global metaverse?

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**Task Date:** 03/23/2023

**Task Type:** Writing & Contemplation

- 1) **Field experience in real projects:** Architects could be able to develop projects based on finances, client needs, integration between spaces, etc., and all this could be used in the metaverse.
- 2) **Visual understanding of colors:** Architects could use their color understanding to create even more innovative spaces.
- 3) **Understanding people's needs:** People demand projects that would fit in different realities. Metaverse wouldn't be different.
- 4) **Urban and architectural planning:** Architects could indicate which area would be able to develop due to economic conditions, for example.
- 5) **Developing spaces that favor integration between people:** Architects could be able to develop spaces that could provide more integration with people;

## What have you learned in the second month?

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**Task Date:** 04/03/2023

**Task Type:** Writing & Contemplation

- 1) More information that must have in the sheets;
- 2) Proofread some information that we've learned in the first month;
- 3) Learned more about some processes in how to deal with them;
- 4) Learned more about project management;
- 5) Learned more how to deal with time

## What are your aspirations until the end of the internship?

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**Task Date:** 04/05/2023

**Task Type:** Writing & Contemplation

- 1) **Maintain a cheerful outlook on life.** I'm determined to keep a cheerful disposition during the duration of this internship. I could give the best impression of devotion and consistency if I had a positive mindset
- 2) **Request feedback and express gratitude.** ask my mentors and coworkers for feedback. Consider how I can use that advice to improve my performance in my next position.
- 3) **Express gratitude for this chance;** it is a commensurate reward for everyone's work and effort during the internship period.
- 4) **Be professional at all times.** I'll make certain to uphold the greatest level of professionalism in the

III WRITE-UP TASKS

**What new strengths have you discovered about you during this internship?**

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**Task Date:** 04/13/2023

**Task Type:** Writing & Contemplation

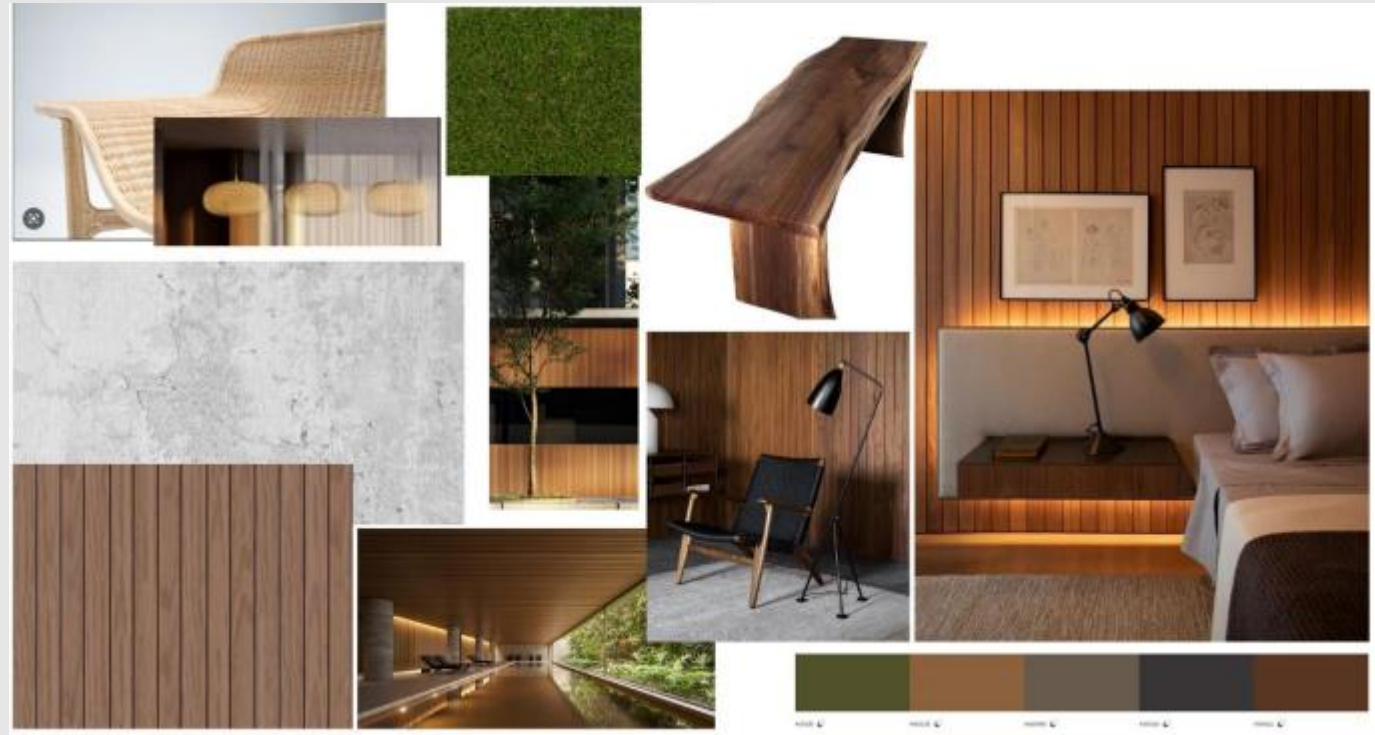
1. 1- Discipline;
2. 2 - Project management.
3. 3 - Tasks management;
4. 4 - Time management.
5. 5 - US construction management/codes;

## Mood Board

**Task Date:** 02/24/2023

**Task Type:** Writing & Contemplation

My chosen project was Pierino Building, by Marcio Kogan (Studio Mk27 office)



Source: All pictures were extracted from photographs uploaded to Studio Mk27's website.  
<https://studiomk27.com.br/pierino/>

## AUGMENTED REALITY IN ARCHITECTURAL PROJECTS

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**Task Date:** 04/12/2023

**Task Type:** Research



### INTRODUCTION

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With the advent and accessibility of technology, is possible to create even more. As of one of applications that are most helpful nowadays to AEC, abbreviation for "Architecture, Engineering and Construction" industry, Augmented Reality has different applications in Civil Construction, Interior Design and for casual users, or people who are non-professionals in this industry.

This technology is special because allows users and professional to interact with the construction, design and has a tons of possibilities to analyze buildings and environments.

## AUGMENTED REALITY IN ARCHITECTURAL PROJECTS

**Task Date:** 04/12/2023

**Task Type:** Research



Research Task

## AUGMENTED REALITY IN ARCHITECTURAL PROJECTS

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**Task Date:** 04/12/2023

**Task Type:** Research

**BITARCHITECTS**  
ARCHITECTURE, INTERIOR DESIGN & CONSTRUCTION



Why manufacturers need to take a serious look at Augmented Reality  
<https://blog.hansoninc.com/why-manufacturers-need-to-take-a-serious-look-at-augmented-reality/>

CONCLUSION

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Finally, as a conclusion these technologies are more visual and doesn't seem to be useful since professional people could handle with them and use properly, like a salesperson.

For each technology that were invented in augmented reality there's a tool that could be used manually by a capable human being. To general people, AR would be a whim but very useful for people who conditions to afford and look for new experiences.

IV Photography

## Picture of My Country

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**Task Date:** 03/06/2023

**Task Type:** Photography



IV Photography

## Picture of My Country, Shadows

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**Task Date:** 03/13/2023

**Task Type:** Photography



IV Photography

## Picture of My Country, Top of a Roof

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**Task Date:** 03/20/2023

**Task Type:** Photography



## **Meeting with Mr. Chamoun**

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**Meeting Date:** 04/12/2023

**Meeting Purpose:** Learning from his Life Experience

### **Takeaways from Mr. Camille Chamoun:**

- 1- Pursuing your dreams
- 2 - Be adaptive
- 3 - Be punctual
- 4 - Be resilient
- 5 - Be disciplined with yourself

## **INTERNSHIP EXPERIENCE BRIEF**

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**Internship Dates:** 02/06/2023- 04/27/2023

**Internship Location:** Virtual

This internship made me better understand theories and ideas, and practice my architectural skills by actively engaging in working on many projects with a great team and wonderful mentors.

This internship gave me a great experience in architecture, interiors, presentations, research, and photography, and improved my English very much.