



**DEPARTMENT OF BUILDING
UNIVERSITI TEKNOLOGI MARA
(PERAK)**

**FACULTY OF ARCHITECTURE, PLANNING AND SURVEYING
DIPLOMA IN BUILDING (AP116)**

THE STAGE AND WORK PROCESS OF INTERIOR HOUSING DESIGN

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It is recommended that the report of this practical training provided

By

Entitled

The Stage and work process of interior housing design.

be accepted in partial fulfillment of requirement has for obtaining Diploma in Building.

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AUGUST 2021

STUDENT'S DECLARATION

I hereby declare that this report is my own work, except for extract and summaries for which the original references stated herein, prepared during a practical training session that I underwent at El Design Industry for duration of 19 weeks starting from 30 August 2021 and ended on 7 January 2022. It is submitted as one of the prerequisite requirements of BGN310 and accepted as a partial fulfillment of the requirements for obtaining the Diploma in Building.

.....:

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Date : 30 AUGUST 2021

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Even, they have their own work to do. They have given me with new ideas about the task and lend me a hand to help on some matters that I could not quite handling throughout completing this report. Finally, while my internship, I learn a lot of new things and get valuable experience. I will preserve them for the future, when I have real-world work experience in this industry.

ABSTRACT

The art or practice of planning and managing the design and implementation of building interiors and their furnishings is defined as interior design. Although the desire to create a pleasant atmosphere date back to the dawn of humanity, the profession of interior design is relatively recent. This report will discuss about the stages and work process of interior housing design. This report was conducted for The Construction of Avanti Residence, No 15 Jalan U17/4, Seksyen U17 40160, Shah Alam that owned by En. Azlan. The objective of this report is to identify the process of interior design and to determine the problems that may occur the making of design, as well as a solution that can be implemented throughout the design process. It will focus on the process of interior design.

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CHAPTER 1.0

INTRODUCTION

1.1 Background of Study

Interior design is a multifaceted profession that combines artistic and technological solutions inside a building to create a constructed interior space. These solutions are useful, improve the tenant's quality of life and culture, and are visually pleasing. Designs are generated in reaction to and in coordination with the building shell, and they respect the project's geographical location and social context. Designs must comply to code and regulatory regulations, as well as promote environmental sustainability concepts. The interior design process follows a systematic and coordinated technique that includes research, analysis, and knowledge integration into the creative process, wherein the client's demands and resources are satisfied to generate an interior space that meets the project goals. (College of Social and Behavioral Sciences, 2016). The importance of interior design has an influence the mood and feel in lives as well as surroundings. Interior design serves to improve the spirits while also optimizing the space in our homes to make the greatest use of the available space. Interior design is very significant in lives, as it makes a living more contemporary and fashionable. Not only that, but also introduces to elegance and comfort while also increasing the utility in lives. (InteriorsInfo, 2020).

In general, there are five general phases in interior design. Strategic planning is the first phase. Getting to know the client better and deciding on a budget for the project is the purpose of gathering the client brief. Once the timeframe is finalized, the work can begin. Conceptual development is the next step. Important Characteristics of this phase is sketches are created from ideas. A basic site plan, simple elevations, new floor plans, and rough sections are included. Upcoming is design development phase. This phase involves further

developing the approved schematic design. Additionally, colors, materials, etc. are included in the design. A 3D model of the final design is sent to the client for approval. Last but not least construction documentation phase. In this phase, the approved design is translated into construction documents for contractors. These documents include all specifications for executing interior design projects. Construction documents approved for cost estimation are then processed. Lastly, construction maintenance & administration phase. Documentation compliance is the first step in construction. Construction or manufacturing on-site ensures the design intent. (BluEntCAD, 2018).

Professional interior designers often follow to a set of informal guidelines based on certain interior design ideas and features. Space, line, forms, light, colour, texture, and pattern are examples of interior design aspects, and keeping them balanced is the key to producing an aesthetically beautiful environment. The most important element in interior design is space. Space is a key idea to comprehend as the foundation of an interior, because the available space cannot typically be readily modified (though a designer may have the luxury of doing so on occasion), you must work with what you have within the actual constraints of the room. Line is horizontal, vertical, and dynamic lines all assist to form and direct the eye in a room. Using the furniture and structural architecture of the room to create lines may create harmony, unity, and contrast. Next element is form of the room, as well as any things within it, are examples of form. In other words, it refers to the actual shape of any three-dimensional object.

Color is a science in and of itself, and it is another crucial factor that interior designers must grasp. It has the power to establish mood, define cohesiveness, and change people's perceptions of how big or tiny a room is. Last but not least is the feeling surface of an object or finish is referred to as texture. It's an aspect that is sometimes neglected, yet it has the potential to provide a distinct depth to the area. An interior designer, like a painter, will blend textures in a room to create a subtle impression of depth. Lastly is pattern, when

combined with colour, has a similar function to texture in that it may bring attractiveness to a room. A pattern is made by repeating a motif and may be found in wallpaper, soft furnishings, carpets, and textiles. (Element of ID, 2021) However, the aim of this case study is to identify the process of interior design.

1.2 Objectives

- i. To identify the process of interior design.
- ii. To determine the problems that may occur the making of design, as well as a solution that can be implemented throughout the design process.

1.3 Scope of Study

The scope of study has been carried out at Avanti Residence, No 15 Jalan U17/4, Seksyen U17 40160, Shah Alam. The project had been started on 1/10/2021 and the completion date will be on 15/10/2021. The construction is about 1 space at home and the cost was about (RM 5,250.00). The project is currently were completed done. However, the focus of the study is to identify the process of interior design. Other than that, the study also just not focus about the process of interior design but also including the problems that may occur the making of design, as well as a solution that can be implemented throughout the design process. Despite the fact, that the study does not focus on the entire process, it does only focus on the process of interior design . However, there are three techniques of study that are commonly used to obtain additional information and data about the construction, which are observation, interviews, and document reviews to complete the data for the report.

1.4 Method of Study

- i. Observation - The data for the observation was taken using a phone for a photo as well as written notes, while the designer was working on a design. The observation was carried out for about approximately 1 to 2 hours.

- ii. Interview – Unstructured interview was conducted with relevant respondent such as interior designer, site supervisor, manager, and skilled worker. The purpose of having interview with the respondent to obtain explanation regarding interior design process. The interview session was conducted 20 to 30 minutes. Therefore, the conversation between interviewee and interviewer were used written note in the note book

- iii. Document review – The type of document that has been reviewed such as magazine and catalogue.

CHAPTER 2

COMPANY BACKGROUND

2.1 Introduction of Company



Figure 2.1 El Design Industry Logo

El Design Industry is a construction and remodeling company that specializes in modern contemporary residential and commercial structures. The headquarters of El Design Industry are located at No. 9, Jalan Setia Prima D U13/D, Setia Alam, 40170 Shah Alam, Selangor. El Design Industry offers experienced consulting for your interior and outside living environment demands. El Design Industry's inventive and original innovations guarantee that your living environment meets the wants and practicality of your clients. El Design Industry is dependable, inventive, and disciplined. Practice a culture of respect amongst one another, and foster a teamwork spirit inside the business as well as with our clients. El Design Industry works as a family and communicates effectively with one another in order to sustain a well-mannered conduct and protect and maintain the reputation of. The goal is to overwhelm clients with stylish and sensible designs that will shift their view on the use of the space as well as deliver a feast to their graphic and visual senses, among other things.

2.2 Company Profile



Figure 2.1.1: El Design Industry office signboard

Name Of Company	El Design Industry
Address	9, Jalan Setia Prima D U13/D, Setia Alam, 40170 Shah Alam, Selangor
Contact Number	013-9471889
Email	el.designmalaysia@gmail.com
Core Business	<ul style="list-style-type: none"> i. Decorative art. ii. Interior and Exterior. iii. Architecture .

Mission

El Design Industry is committed in providing state of-the-art engineering and consultancy services throughout the entire lifecycle of installations in order to assist clients meet their operational and business objectives in terms of sustainability, profitability, reliability and safety.

Vision

El Design Industry is committed in providing state-of-the-art engineering and consultancy services throughout the entire lifecycle of installations in order to assist clients meet their operational and business objectives in terms of sustainability, profitability, reliability and safety. El Design Industry aspires to be a reliable international engineering partner to those companies, institutions and public authorities which are developing and operating energy and infrastructure projects.

El Design Service

- i. Decorative art – El Design Industry decorative art is basically inspired by Islamic art. Usually, designing fascinating calligraphy and motives for interior and exterior of a building such as mosques, houses, restaurants, mihrab and others.

- ii. Interior and Exterior - El Design Industry do design and built for Interior and exterior of commercials and residential

- iii. Architecture - Expertise in structure up new building for commercials and residences. El Design capable of designing new ideas and concerning about the circulations and the arrangement of the spaces.

2.3 Organizational Chart

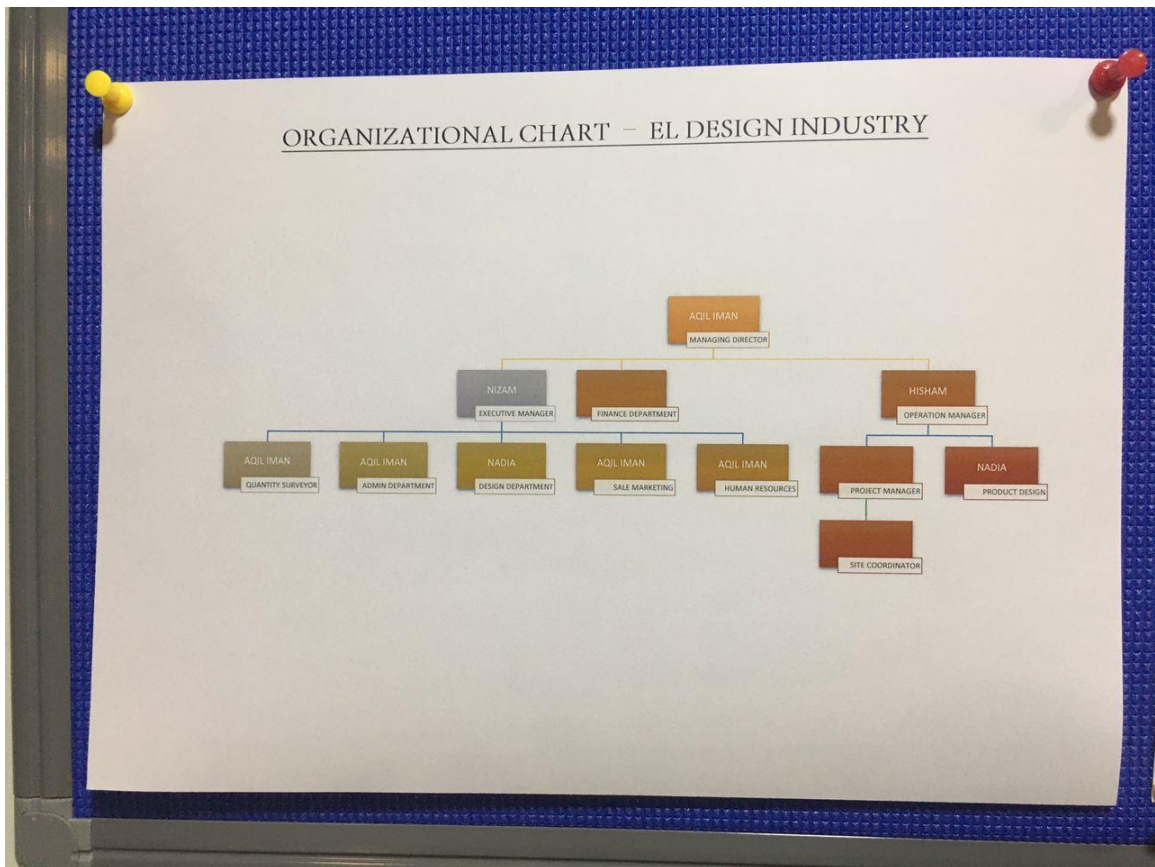


Figure 2.3 Organizational Chart of El Design Industry

2.4 List of Projects

2.4.1 Completed Project

Table 2.4.1 Completed project of El Design Industry

No.	Project Title	Project Value	Start Date	Completion Date	Project Duration	Client
1.	Divider	RM 5,200.00	1/10/2021	15/10/2021	15 Days	Encik Azlan
2.	Mini Mihrab	RM 5,450.00	17/10/2021	23/10/2021	7 Days	Kak Gee
3.	Mini Mihrab and Divider	RM 15,000.00	4/9/2021	21/9/2021	18 Days	Puan Zuriati
4.	Surau	RM 38,000.00	4/11/2021	30/11/2021	26 Days	Surau Mukhlisin

2.4.1 Project in Progress

Table 2.4.2 Project in Progress El Design Industry.

No.	Project Title	Project Value	Start Date	Completion Date	Project Duration	Client
1.	Surau	RM 28,080.00	25/11/2021			JBR Bundle
2.	Masjid	RM 102,380.00	26/11/2021			Masjid Ibnu Sina
3.	Surau	RM 24,000.00	6/12/2021			JBR Bundle HQ

CHAPTER 3.0

CASE STUDY

3.1 Introduction to Case Study.



Figure 3.1 The location of the Project

The construction project was located at Avanti Residence, No 15 Jalan U17/4, Seksyen U17 40160, Shah Alam. This construction area is facing the road of Jalan Kuala Selangor. The main building close to this construction area is Surau Manhabul. Existing residential areas such as Kampung Merbau Indah, Kampung Merbau Sempak Tambahan, Kampung Parit Bengkok, Taman Saujana and Kampung Kubu Gajah Luar are located near at the construction site. Value of this project is RM5,200.00. The size of this prayer space is 11ft x 12ft.

The activities that have been carry out on the site is installation of decorative divider CLC panel. This uneasy work needs to be handled by skilled workers to get a perfect installation. However, the design will be made by the designer and on the site only need to do the installation process. But if there is a size problem during the installation process, the installer must consult the designer for the problem. Therefore the process of interior design will be recorded started from the first process of interior design until the arrangement of the design into the CLC board. Last but not least, the problems of interior design process will be determining throughout the design process. The solutions of the problems also will be state after determine the problem of the process. This chapter will be focused on the process of interior design and the problem and solution that related with interior design process.

3.2 To Identify the Process of Interior Design.

The first step to identify the process of interior design is site survey. In this stage, site coordinator and sales executive will go to the site to meet with the client. While site coordinator is taking measurements, sales executive will discuss about the project to get to know the client more deeply. In this way, sales executive can know the client's tastes in more depth. When the discussion on the material, design and color desired by the client has been completed, then it also continues with the discussion with the client's budget for this project. Once all this is completed, site supervisor will inform the expected period of this project will take time.



Figure 3.2 Picture of the prayer room on the right side.



Figure 3.2.1 Picture of the prayer room on the left side.

Finally, site coordinator will measure the height and width of the walls to facilitate the work of the designer. After measuring the desired size, a picture of the site will be taken and given to the designer to be used as a reference to make it easier for the designer to find ideas by using the picture.



Figure 3.2.2 Picture of the prayer room from the front side.

Once ready to get the size and also the image provided by the site coordinator, the next step is for the designer to create a 2D design in AutoCad before making the design into 3D in the sketch up. With the image provided, the designer can already imagine the design they want to make. Usually the designer will look for ideas to start designing for the project En. This Azlan. The element of interior design used for each space is very important to make a project successful. As in figure 3.2.3 below, the selected pattern may be somewhat fibrous to look at. But if you look at the picture of the site provided, the prayer space is quite empty. So with the use of the selected pattern it can help the space look more attractive.

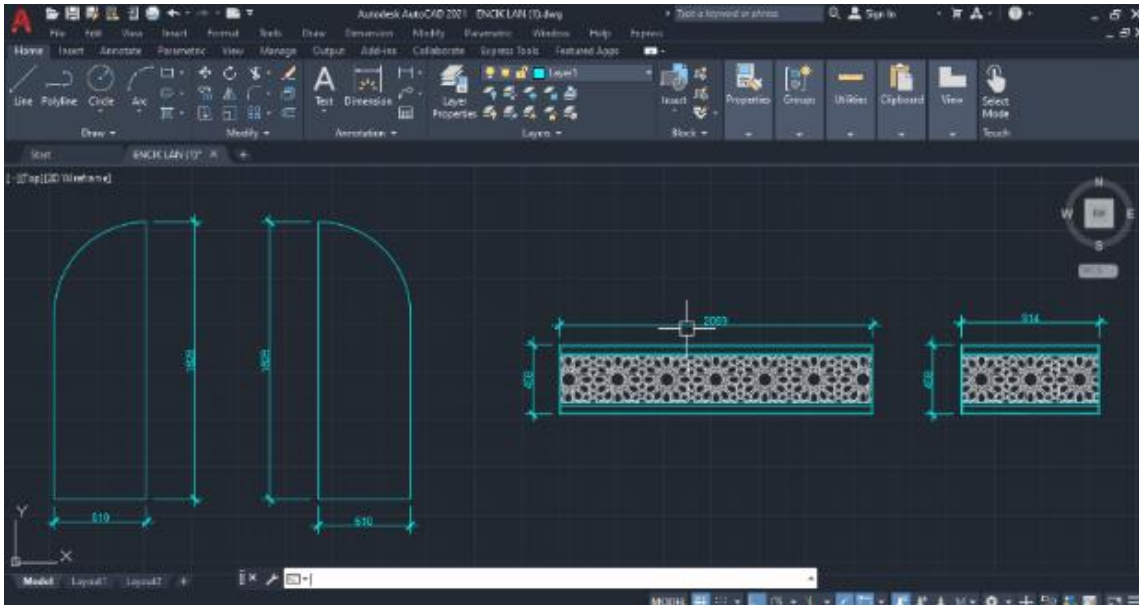


Figure 3.2.3 A screenshot of divider that already done in Autocad for prayer room.

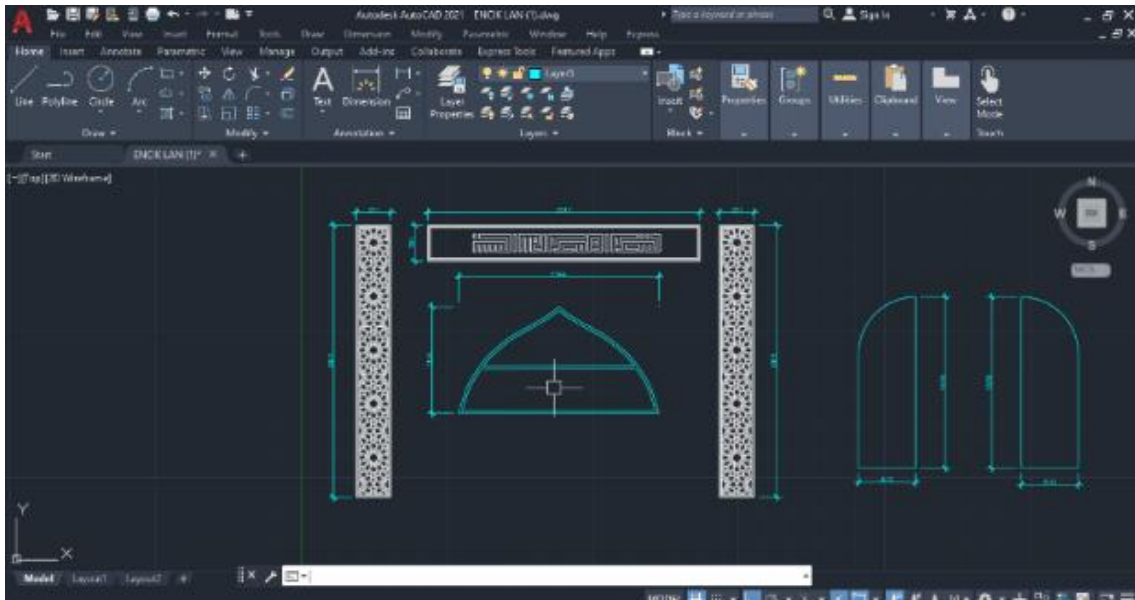


Figure 3.2.4 A screenshot of divider that already done in Autocad for the front side of prayer room.

After completing the 2D design in Autocad, the next step that must be done is that the designer is required to increase the 3D for the design. The purpose of this 3D image is to be used as an image to the client when the design is ready to be installed. The 3D drawings also created in order to submit to the client in a quotation to pick and confirm. Figure 3.2.4 below is a divider, shelf and also a kufi sentence that has been pasted on the right side of the wall.

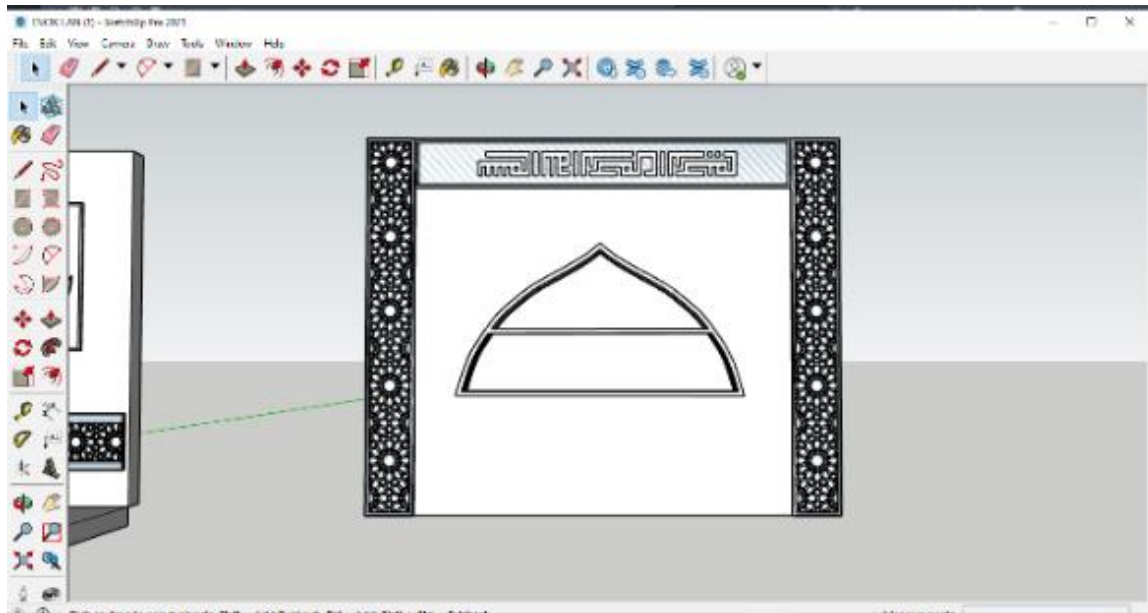


Figure 3.2.5 A screenshot of rug,divider that already done in sketch up for prayer room.

Once all the designs are raised to 3D and placed in the proper parts, the next task is to add color to the design that has been made. The ability of the client will see the results of work that has been made by the company El Design Industry. It is one of the famous colors used by clients before, which is roast coffee color. Due to the mihrab in the house of Mr. Azlan is a brown color, so the designer uses a theme that is its kind of the same as the mihrab so that there are not too many colors involved in the space. Choosing the right color also plays an important role in interior design. It has the power to establish mood, define cohesiveness, and change people's perceptions of how big or tiny a room is. Color

may conjure memories and arouse emotions, causing our body to respond physically and psychologically.

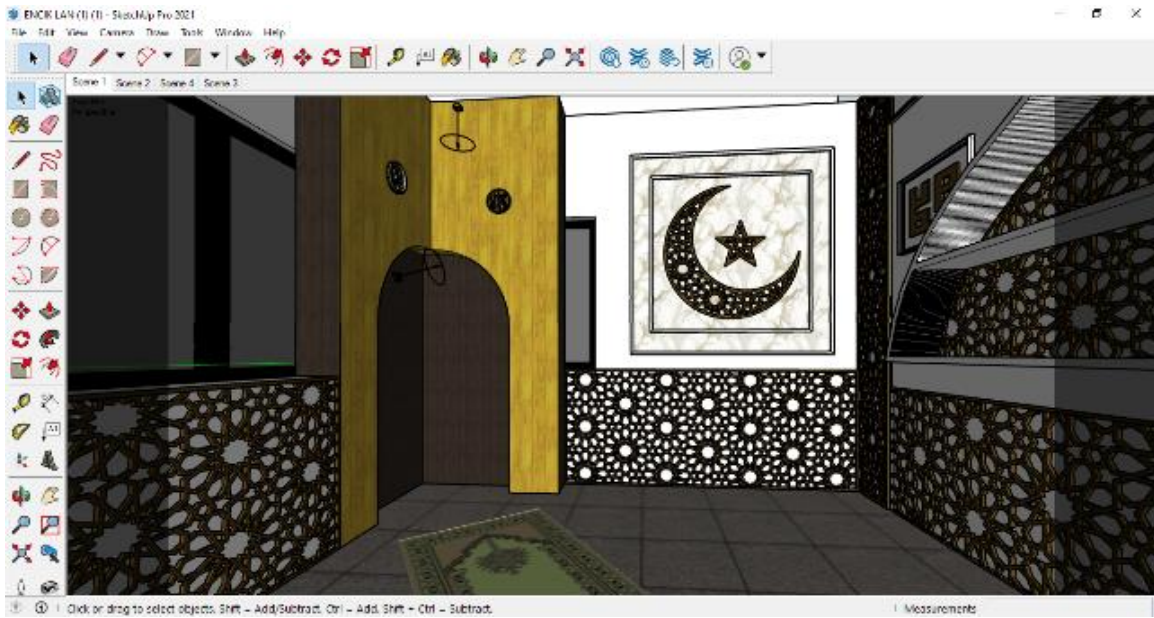


Figure 3.2.6 A screenshot of decoration in prayer room that already done by insert the color.

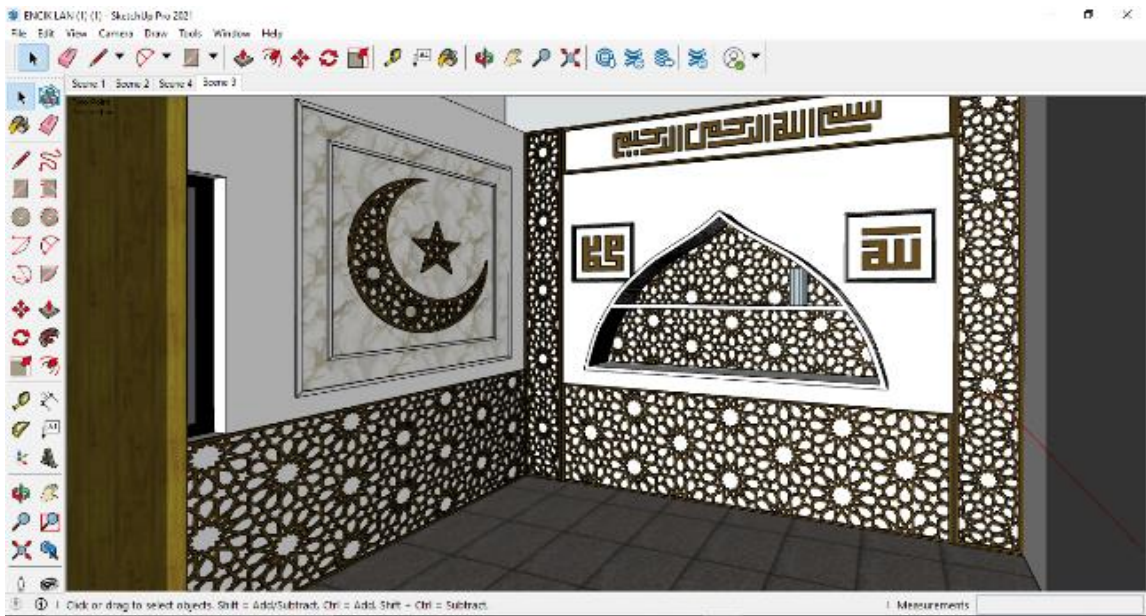


Figure 3.2.7 A screenshot of decoration in prayer room that already done by insert the color.

After entering the lighting and color in this design, the next step is to render the design that has been made. Figure 3.2.7 below is a design that is ready to be rendered. The image that has been rendered for this purpose is given to the client to choose whether they are interested or not with the design.

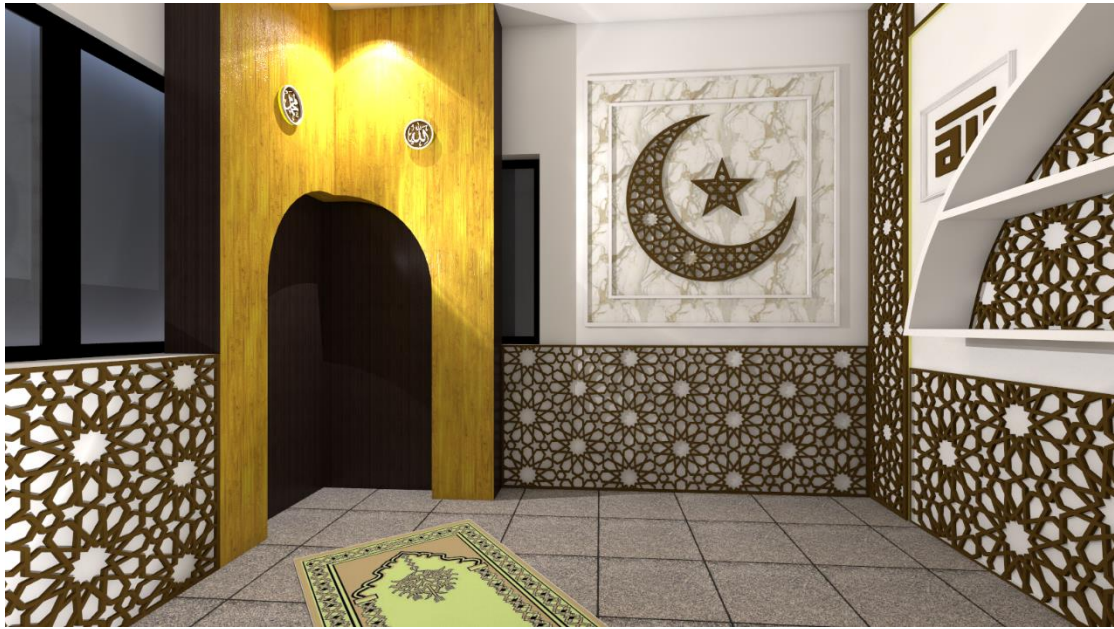


Figure 3.2.7 Rendered image of prayer room from the front side.



Figure 3.2.8 Rendered image of prayer room from the right side.

After all the interior design process is ready, the image that has been rendered should be included in the proposal in powerpoint. This proposal must be given to the client in the form of A4 or A3, but for the project En. Azlan this, it only uses A4 paper only. This proposal aims to give the client the opportunity whether this design wants to be used or want to be changed.

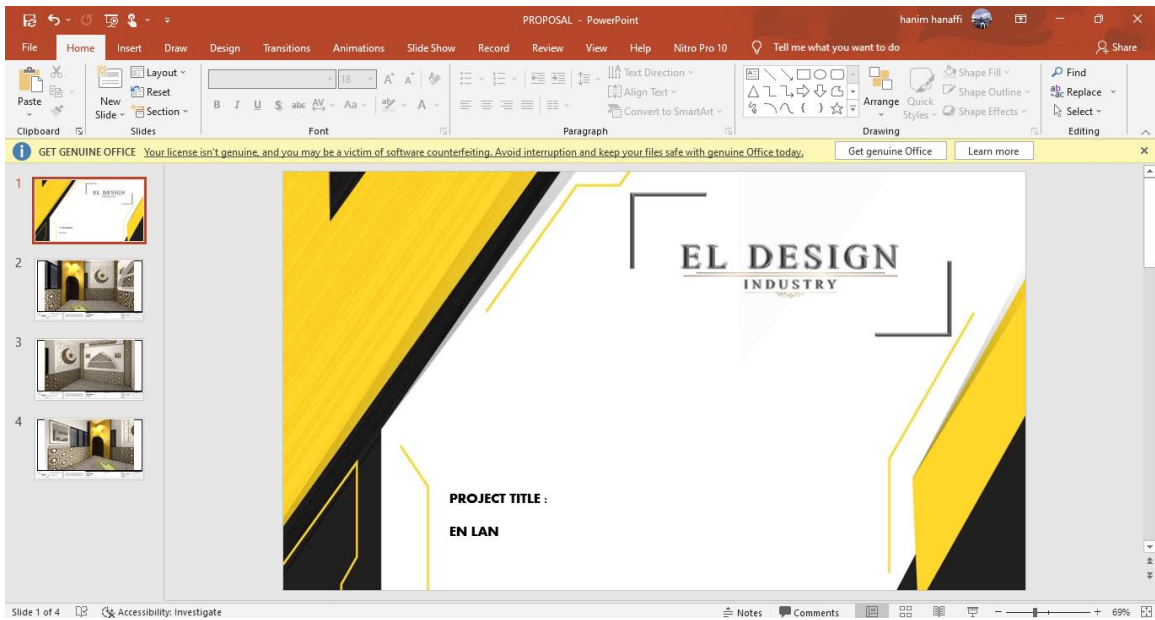


Figure 3.2.9 Design proposal that has been made.

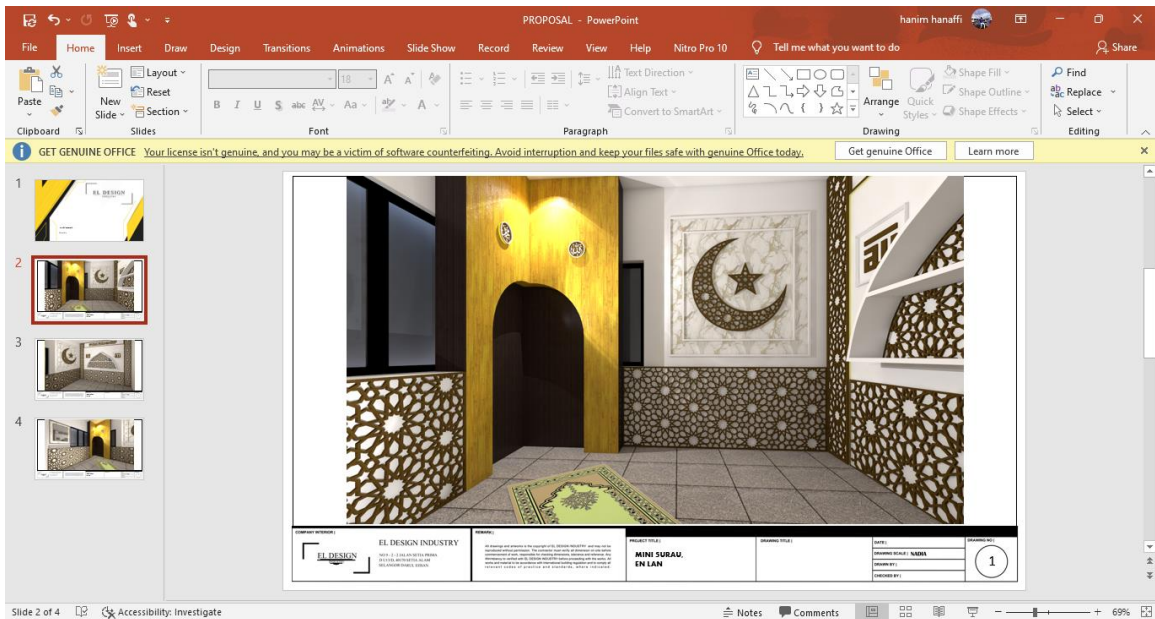


Figure 3.2.10 Design proposal that has been made.

After the client saw the proposal provided, Mr. Lan is not very interested in the design given. With the previous design, it was more budget than what Mr. And it has a budget. So taken from the previous design, the shelf, divider and kufi verse were removed.

Mr. Azlan only wants a divider at the bottom. So it is only necessary to change the size of the divider only.

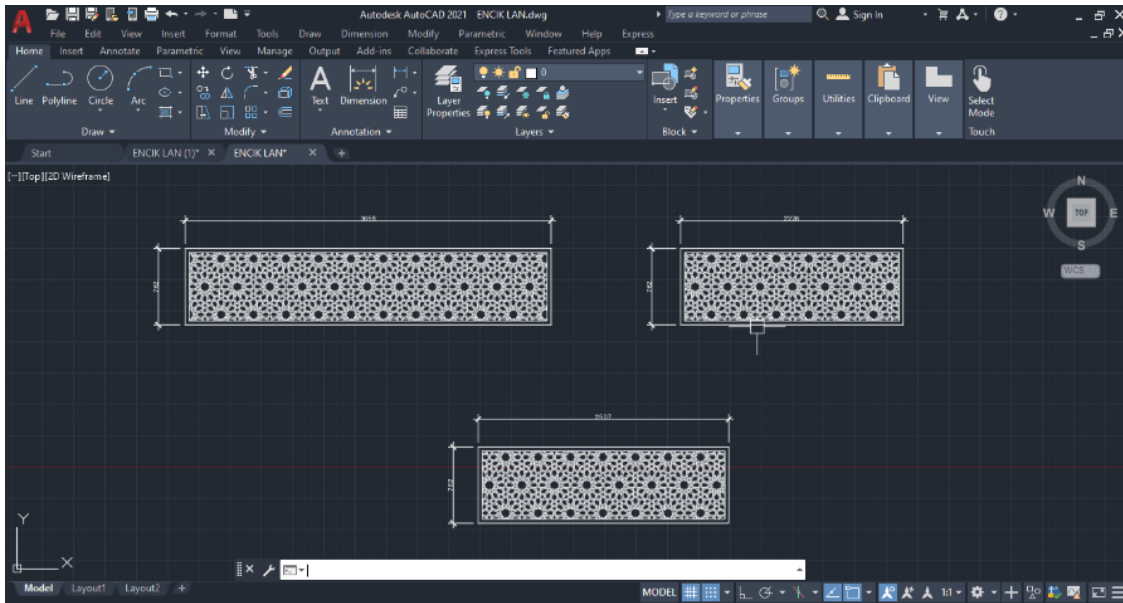


Figure 3.2.11 A screenshot of divider that already done in Autocad.

The desired color is the same as before, so for this process it is only necessary to raise it to 3D and place the divider in the correct part. And then enter the same color only.

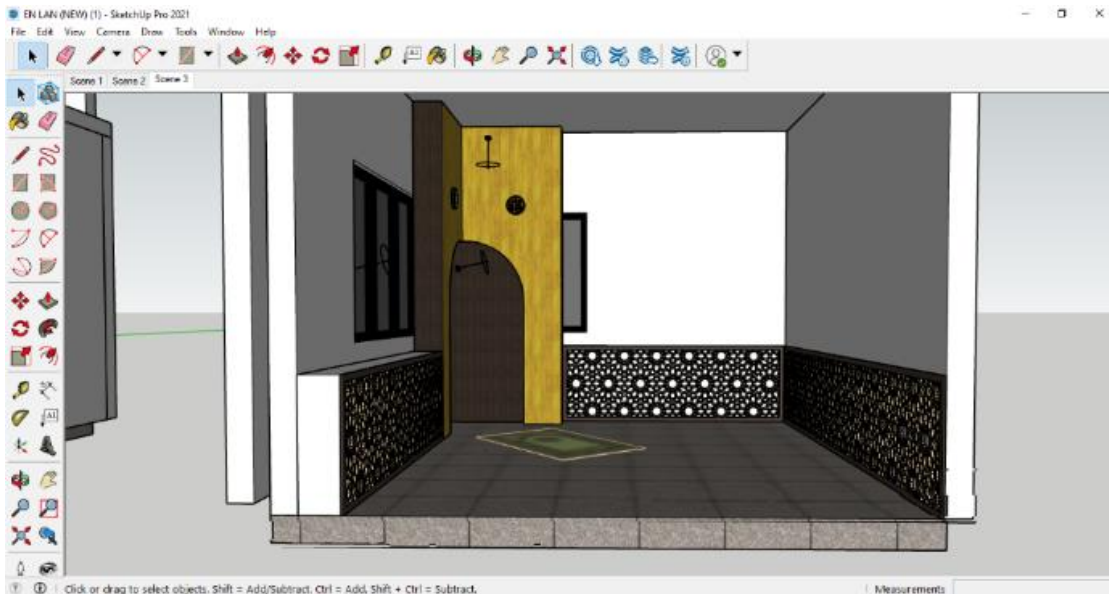


Figure 3.2.12 A screenshot of divider in prayer room that already done by insert the color.

With the changes requested by En. Azlan, a new proposal must be made to be given to the client if he agrees with the changes that have been made.

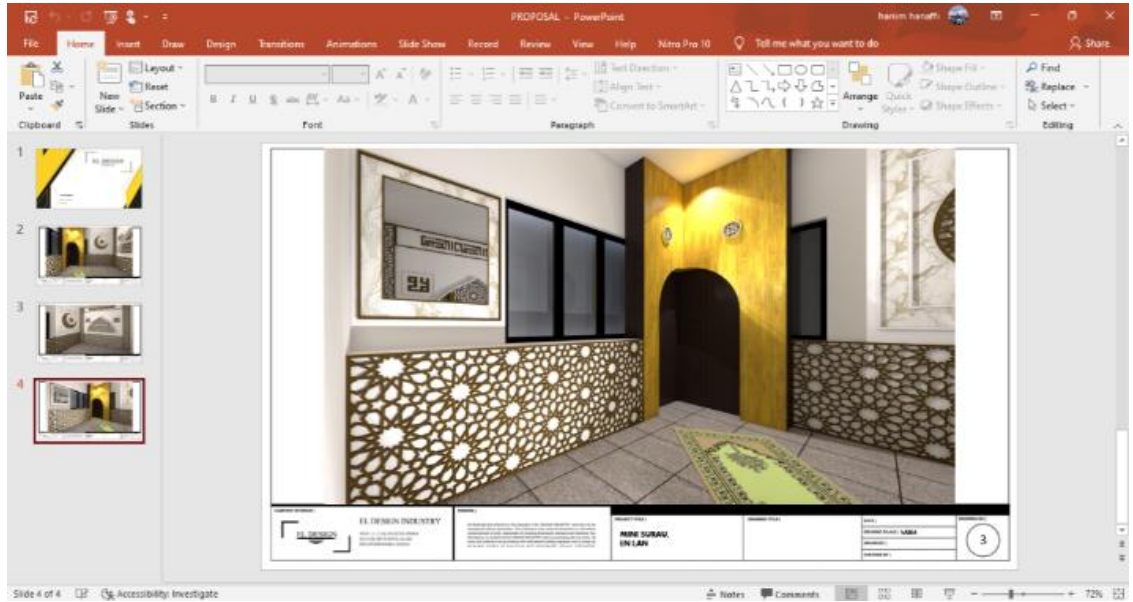


Figure 3.2.13 New design proposal that has been made.

The last step after the design is ready, the design must be inserted into the CLC board measuring 4ft x 8ft. The greater the number of CLC boards used, the more expensive the price for a project. For Mr. Azlan's project, it only uses 2 boards measuring 4ft x 8ft and another board measuring 2ft x 8ft only.

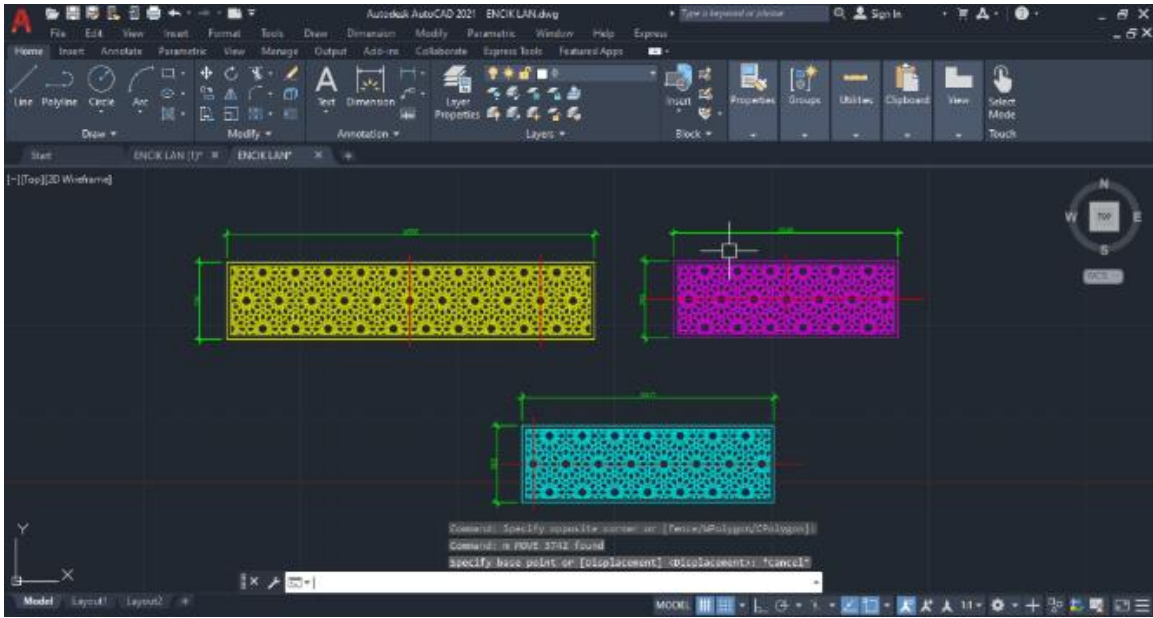


Figure 3.2.14 Divider that has been cut in Autocad.

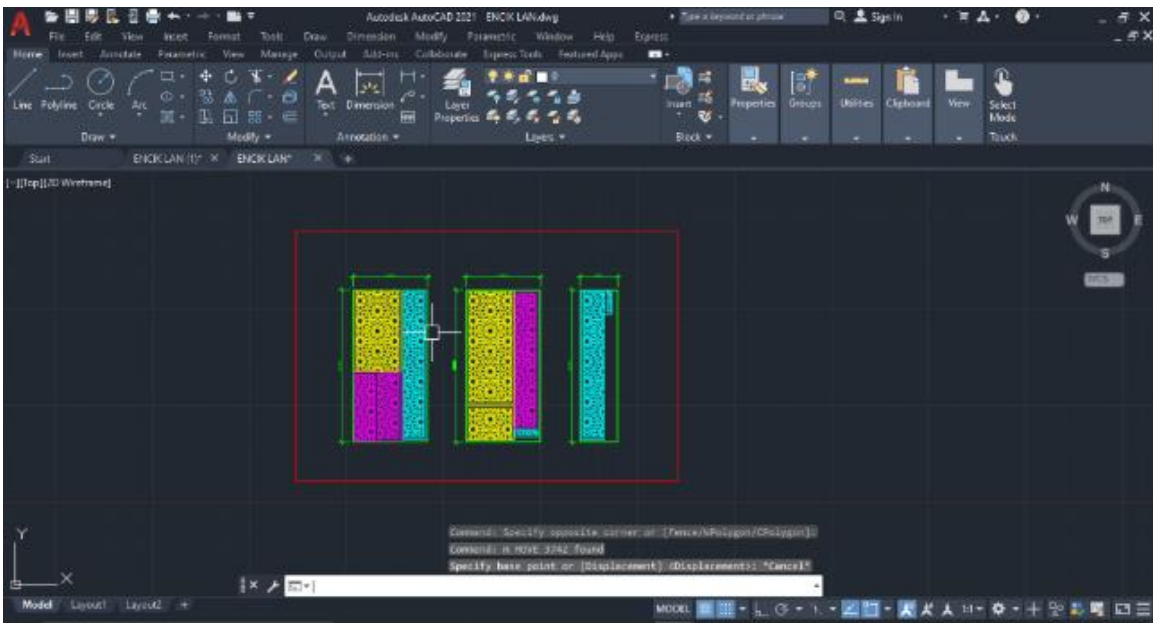


Figure 3.2.15 Divider that has been cut in AutoCAD and has been inserted into the CLC board.

3.3 To Determine the Problem Occurred and Solution Taken to Solve the Problem.

1. Communication Problem

Communication is at the important in interior design design. Communication is constrained by a powerful experience or visual language that provides context. Communication between the designer and the client is very important to facilitate and speed up a project. But this is what has always been one of the problems for designers. For example, if the client wants a certain color but the designer feels that the color does not match the existing color in the house, then there will be a little misunderstanding between the client and the designer. If the designer makes a design as desired by the client but suddenly the client feels that the design is uninteresting and in accordance with their tastes, they will ask the designer to change it. When the designer has changed the design that the client wants but they still do not want it, that will usually be the starting point for communication problems between the client and the designer.

There are two solutions for this problem, first is learn about the client's business model and what customers enjoy and dislike. Inside knowledge and awareness of the place there are the secrets. This is a critical point. What designer know and don't know about design client's business will have an impact on design approvals from key stakeholders. When designer misinterpret their demands, it muddles communication at all phases of the design process. Next is don't speak over the client's heads. Speak in simple language. Designer must demonstrate the understanding of the saying as well as your knowledge of the subject. Usually client's want to appear well, expand their business, and be comfortable with the decisions. Designer role is to make people feel good about making difficult decisions.

2. Human error which occurred during the site visit while taking measurements.

The second problem that often occurs apart from communication problems is problems in production. There are many causes for this mistake. The problem that is often done usually starts from the site coordinator himself, as we know the site coordinator will take measurements on the site to be given to the designer. Designers only follow the measurements provided by the site coordinator without knowing whether the measurements provided are true or false. This issue was caused by parallax error when obtaining measurement readings, as well as the inaccuracy of the laser meter measuring equipment, which did not equate the real measurements of the building area on site. This issue is critical since it might have a significant impact on the entire procedure that follows the site reconnaissance stage. When this happens, it may cause some issues during the installation process on site since the design parts may not match the appropriate area, needing some adjustments to compensate for the faults. Furthermore, it may not only cause difficulties and problems for many people throughout the installation process, but it may also result in financial loss due to the reproduction of new components for the remaining balance that were missing or the appropriate dimension ones to replace the erroneous ones. This will also extend the time frame for this job because the designer will have to redraw the design owing to the incorrect size.

The answer to this difficulty was to recheck and repeat the measurements several times in order to estimate the ones that were closest to the true measurement. Even if the recorded measurements were wrong, they would not be so far off from a true measurement on site that it would have severe repercussions that would need significant effort, money, and time to fix. Furthermore, the measuring activity may involve more than one person to assure the accuracy of the measurements acquired, and readings may be taken with a hand and confirmation. Furthermore, the individual who took the measurements had his or her eyes at the same level as the measuring tape to avoid extra parallax errors.

CHAPTER 4.0

CONCLUSION

Interior design is more than just looks and beauty; it also has the power to exhibit even a studio apartment as a house with ample room with the assistance of good design and calming lighting. A bad interior design, on the other hand, results in a bigger house that lacks room. Interior designers are professionals at creating additional spaces, improving space efficiency, improving practical utilisation of space, improving lighting effects, improving colour effects, improving textures, patterns, scale, and size, and so on. They are also specialists in fittings and equipment selection.

From the 1st of October 2021 to the 15th of October 2021, the procedure took around 1-2 weeks. It was accomplished smoothly and without incident. The interior design process is a typical procedure that is comparable to theory. There is nothing that was done differently throughout the interior design process. Furthermore, concerns such as communication issues and human mistake that happened during the site visit while taking measurements.

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