



BY Michael Gezahegn
ramit/932/10
Arch G4 Sec B



BY MICHAEL GEZAHEGN



Acknowledgment

- First and above all I Would like to thank Almighty god for helping me to reach to reach to these Point give me Strengthen and endless Guidance.
- I would like to Thank Arba Minch institutes of Technology Architecture and urban Planning Department For give me these Opportunity Of internship Program to go out and get an immense Experiences on Architecture .
- I Would like to thank Habtamu Ginbeneh, General Manager of Habtamu Ginbeneh Architect and Engineering consultants. For Give me an Opportunity to work along side with their team of Architects and Engineers.
- I also want to Thanks my CO- Worker Architect Habtegiorgis Tadele, Structural Engineer Fantahun Muse, And Vice Manager Getasew Marew and other Co- worker who worked as Supervisor Through my internship program.
- I Want to thank my Mentors Ar. Mintesnot Who had give me The Guidance through the internship Program.



EXECUTIVE SUMMARY

- Almost For the past three years and half I have been learning architecture in theory by designing different projects on paper with the aid of some software's. through out this time I was able to know different things about architecture.
- It Mainly had an opportunity to The Ways of Thinking and Skills in Designing .
- The internship Give me very Useful in giving Clue what my future Could Look Like give Idea What I should do.
- this internship program gave me an opportunity to practice architecture in the real construction industry.
- As a Conclusion I have gained a new Knowledge and Improved my skills learned from experienced architects and Engineers. By Questioning some Doubts and try to Understanding Their Views to Develop Technical Skills Through these internship Time I need a Commitment To have proper work Ethics.



Introduction

- The Report Basically Tries to cover :
- ✓ The Major Activities That I have Been doing from May 10 to July 10 at Habtamu Ginbeneh Architects and engineering Consultants
- ✓ The major skills that I have been Experienced through the internship Program at Habtamu Ginbeneh Architects and engineering Consultants PLC.



COMPANY BACKGROUNDS

1. BACKGROUND OF HOSTING COMPANY

- **Habtamu Ginbeneh Category -1 Consulting Architects & Engineers** was established at September 2005 E.C and managed by experienced person of the sector according to the law of the country with capital budget of 12,540,000 Birr as sole partnership.
- Through hard working our company is now days have plenty of experience by the sector by designing and supervising so many Engineering Works.

The field of involvement includes.

- ✓ Design of any **Engineering WORK** Projects
- ✓ Contract Administration and Consulting of any **Engineering WORK** Projects.
- Habtamu Ginbeneh is registered as **CATEGORY 1/One/ /CAE/131** /under Construction Works Regulatory Authority Consulting Engineers and Architects under ministry of infrastructure, trade and industry and it is VAT and TIN registered.



COMPANY ADDRESS

The main office is located We do have also Branchs at **BAHIR DAR** Kebele 04. Infront of Melat/Grand Cafe 2nd Floor, Addis Abeba at Megenagna mulugeta zeleke building 5th floor and also have at Gondar kebele 10 ketena 01 and at **South Gondar Zone, Debre Tabor**, kebele 04 Ato Bishaw Wonde Building 1st Floor.

The firm holds his own compound with internal office space of about 200 m². The office has been furnished with wooden furniture, and rooms are arranged in such a way that they can accommodate the staff comfortably creating conductive working environment.



THE WORK EXPERIENCE OF THE COMPANY



Client: Bahirdar Chamber of Commerce and secretarial association.

Project: B+G+12 mixed use
Location: Bahirdar, Ethiopia



Client: es Tsinat lelimat
Project: B+G+12 Commercial+ apartment
Location: Bahirdar, Ethiopia



Client: Commercial Bank of Ethiopia
Project: B+G+M+2 Office Building
Location: Bahirdar, Ethiopia



Project: G+2 Luxury Villa Design
Location: Bahirdar, Ethiopia



Client: Tadesse, Adugnaw and Friends Sc
Project: B+G+11 Commercial and apartment
Location: Bahirdar, Ethiopia



Client: Peacock Real-estate
Project: B+G+15+T
Commercial and apartment Building
Location: Bahirdar, Ethiopia



THE WORK EXPERIENCE OF THE COMPANY



Client: Fincha Market Center
Project: G+5 Commercial Center
Location: bahirdar, Ethiopia



Client: Samuel Gashaw and their Friends SC
Project: B+G+12 Commercial and Apartment b/ng
Location: Bahirdar, Ethiopia.



Client: ST. Mary Church
Project: G+7 Office Building
Location: Bahirdar, Ethiopia



Client: Abiyot Yalew and Their Friends S.C
Project: B+g+8 Commercial + Apartment
Location: Bahirdar, Ethiopia

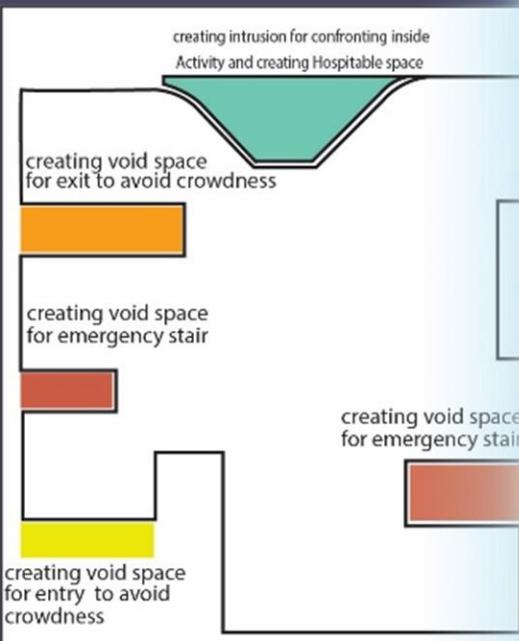


Client: woldiya city Adminstration
Project: G+6 Office Building Location:
Woldia, Northwollo Cost:



Client: Sabisa residential Apartment SC
Project: B+G+29 commercial and apartments
Location: Bahirdar, Ethiopia

CONCEPTUALIZATIONS



Papyrus Traditional boat known as “Tankan” which is made traditional from the Wood type. It is life line for dwellers around Lake Tana for fishing and carrying fire woods.



CONCEPT: INSIDE OUT

Meaning of creating intrusions inward in volume for creating of space which Confronting internal spaces activity in order to increase more frontages and also adding outside Site Components as interior facilities elements (like greenery and site grouped seating and other spaces).

FACADE

FAÇADE FOR INTRUSION VOID

FOR FAÇADZATION OF INTRUSION is improvising or mimic of local traditional made **Papyrus boat** around Lake Tana. Converting boat shape to the intrusion void.

INFLUENCE ON USE OF INTRUSION SPACES

According for creating of aesthetics and local relating things. I consult inside out Concept to Architect Habtegiorgis Tadele he admired the idea and expanding the idea by mentioning as exemplary of **Wogagen bank Head Quarter**.

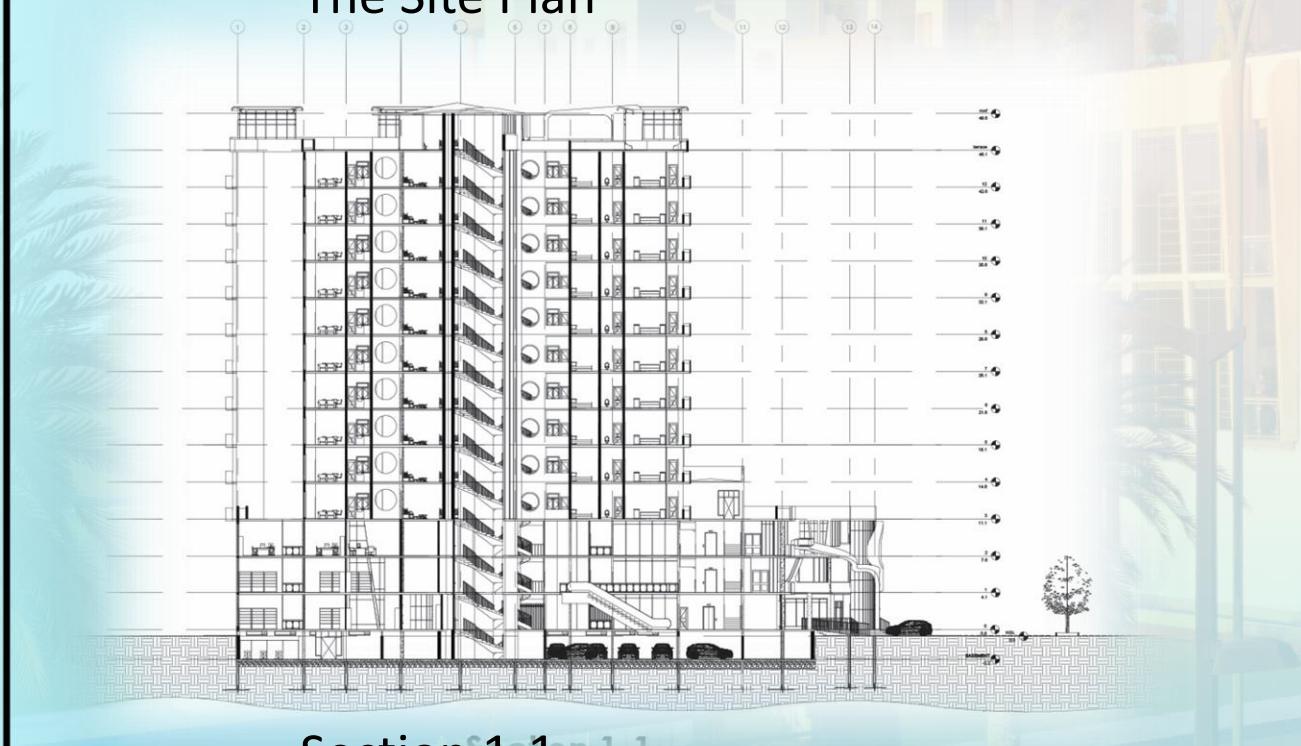
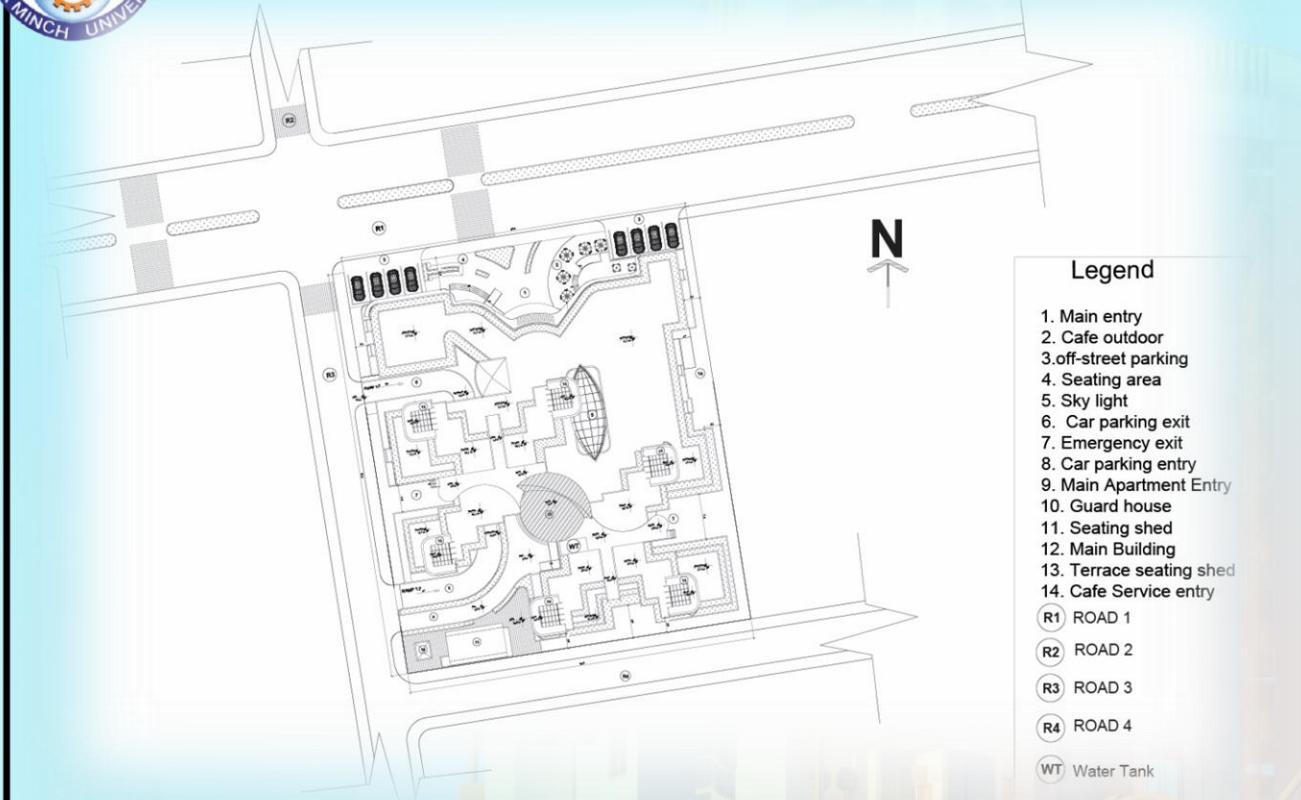


TASK1 B+G+12+T MIXED USE BUILDING





TASK1 B+G+12+T MIXED USE BUILDING



TASK: Modeling, Rendering, And Basement, and 3 bed Layouting

STANDARDS + FUNCTIONAL REQUIREMENTS

STANDARDS

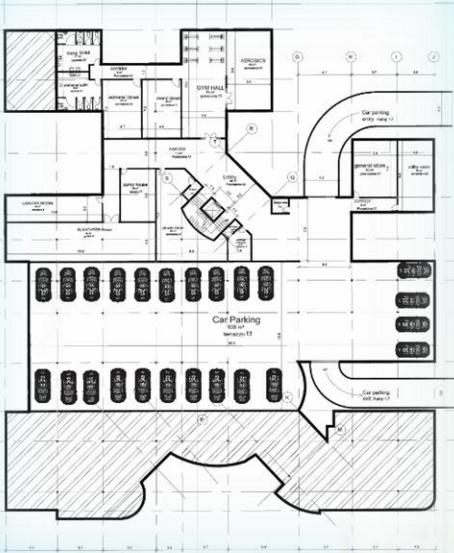
- Architect Habtegiorgis Told me about some standards to be considered like **structural Alignment**, local or kebele **setback** and **BAR** rules and some universal design standards are taken in to an account.
- As an example of plumbing codes for rest rooms per area. Standard is 4 rest rooms per 500 square meters.
- So for **4200** square of area which **60m* 70m** have to be built is about **70% of BAR** so, the built up area is about **2940** square meter. So the Rest rooms which are needed is about 4 rest rooms * $2940/500= 24$ rest rooms and 2-3 disables rest rooms to make it Universal Design.
- Local kebele setback is **5m** in front and **2m** minimum for side and backside Setbacks.

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WORKING DRAWING OF TASK1

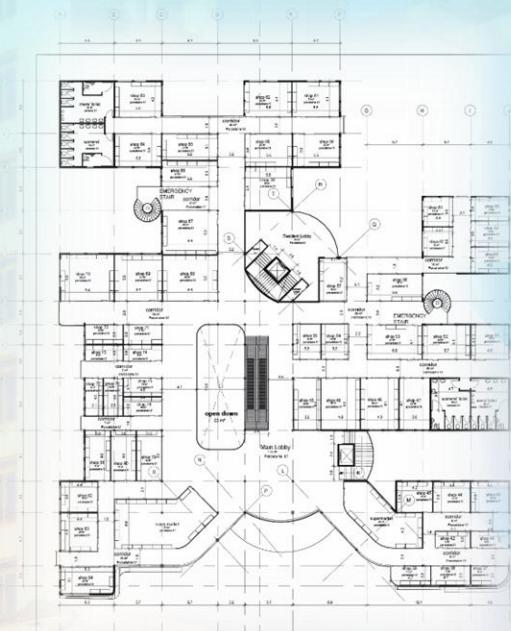
Floor plans



BASEMENT FLOOR PLAN



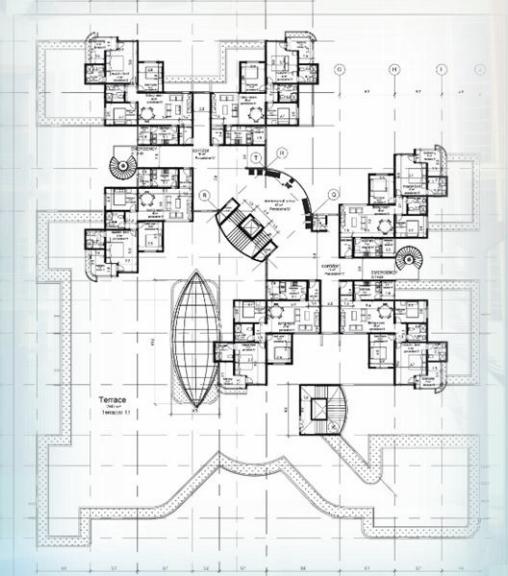
GROUND FLOOR PLAN



FIRST FLOOR PLAN



SECOND FLOOR PLAN



THIRD FLOOR PLAN



FOURTH FLOOR PLAN

WORKING DRAWING

- These Project Has B+G+12+T Of Mixed Use Building.
- On the Basement It has 24 Layout of Parking Slots for 60 resident of about 40%
 - On the Ground Floor Plan mainly have commercial activity with Typology of bank, Cafeteria and Shops
 - On the First Floor it has main Commercial of Shops ,
 - On the Second floor it has Shops and Offices.
 - On the Third and Fourth floor has 6 Flats of 3 Bed room of Apartments with Area of 100 Square meter with 2 Emergency Stairs at Opposite end of Communal area.
 - On the Terrace Floor plan, it Has Seating area with sheds.



TASK 2 B+G+10+T MIXED USE BUILDING





WORKING DRAWING OF TASK2



Apartment flat floorplan



Basement floorplan



Commercial Part ground floorplan



Commercial Part first floorplan

These Project Has B+G+12+T Of Mixed Use Building.

- On the Basement It has 24 Layout of Parking Slots for 80 resident of about 40%
- On the Ground Floor Plan mainly have commercial activity with Typology of bank, insurances and Shops
- On the First Floor it has main Commercial of Shops ,
- On the second and above floor has 8 Flats of 2 Bed room of Apartments with Area of 100 Square meter with 2 Emergency Stairs at Opposite end of Communal area.
- On the Terrace Floor plan, it Has Seating area with sheds.



TASK 2 G+5+T MIXED USE BUILDING



Project : G+5 Mixed Use
Location: Bahirdar, Ethiopia
Cost:
Area: 500 Square meter
Task: Modeling, Rendering
And Lay outing of Bedrooms

Challenges

- ✓ Creating more bedrooms As it Much Possible.
- ✓ Due to One way road there Is high Traffic jam Pave away To design off-street Parking

Procedures

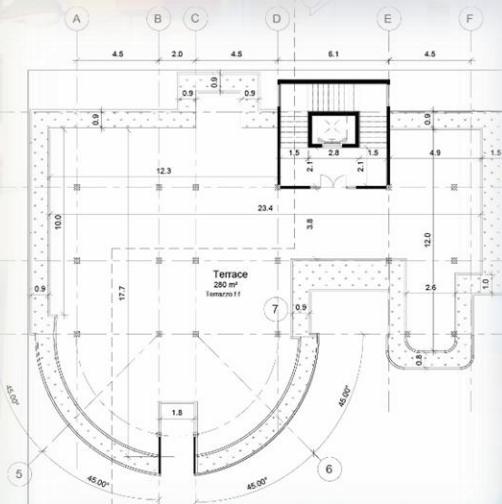
- ✓ Referring fundamental functional Requirement of the Commercial Spaces.

Solutions

- ✓ Creating U-shaped layout Of Plan for Satisfying of off-Street and More Bedrooms



WORKING DRAWING OF G+5 MIXED USE



WORKING DRAWINGS

- ✓ These Project has G+4+T Mixed Use Building.
- On the GROUND floor mainly Composed of Bank, Reception, And a Shop.
- On the First Floor Cafeteria, Shops.
- On the Second Floor Cafeteria, Shops
- On the Third Floor , it has bedrooms with 2 Layouts of 1 bedroom and 2 bedrooms with Balcony and Restrooms per Rooms.
- On the Terrace With Seating Area



TASK 3 G+2+T MIXED USE BUILDING



PROJECT: G+2+T Mixed Use Building

CLIENT: Mr. Addisu Getahun
LOCATION: Adet Woreda, Ethiopia

TASKS: Full Design

CHALLENGES

- The Site have Irregular shape And wanted to Proposed as Mixed use and future proposed Building at the Backyard.

PROCEDURES

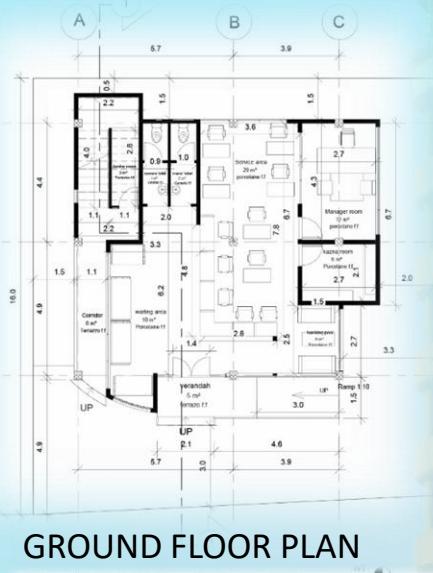
- Referring the Local Municipality Codes of Adet. And Other Functional Requirements

SOLUTIONS

- Meet The Client with the local Municipality and functional Requirement ..



WORKING DRAWING OF G+2 MIXED USE



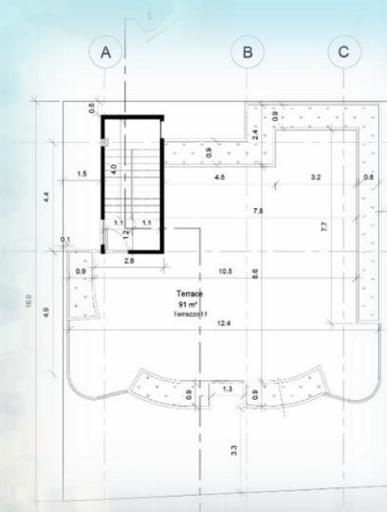
GROUND FLOOR PLAN



FIRST FLOOR PLAN



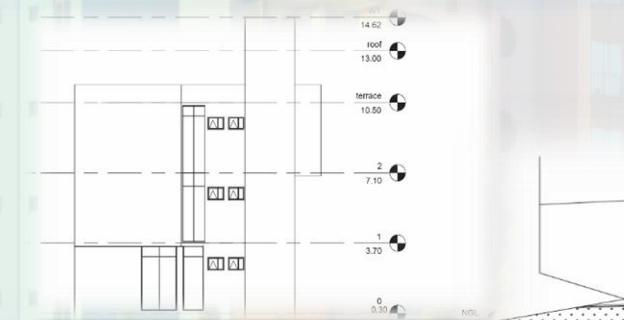
SECOND FLOOR PLAN



TERRACE PLAN



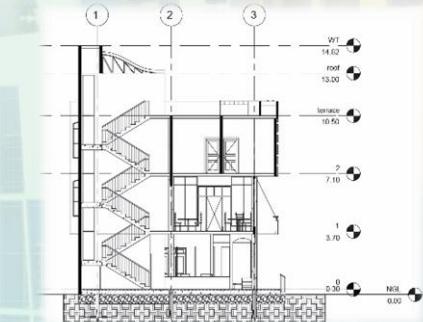
FRONT ELEVATIONS



REAR ELEVATIONS



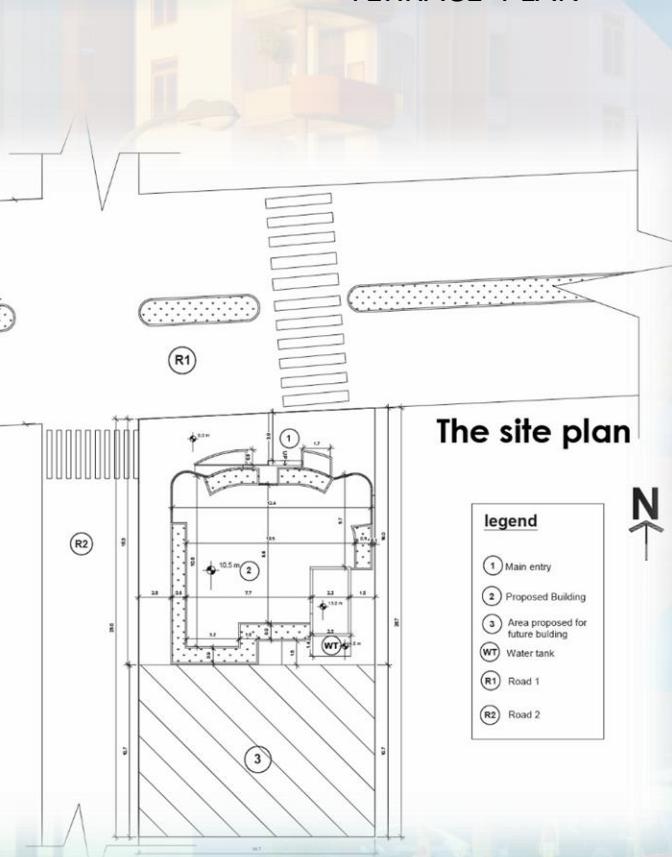
LEFT SIDE ELEVATIONS



SECTION 1-1



RIGHT SIDE ELEVATIONS



The site plan

legend	
1	Main entry
2	Proposed Building
3	Area proposed for future building
WT	Water tank
R1	Road 1
R2	Road 2

WORKING DRAWINGS

These Project of G+2 Mixed Use Has G+2 +T Mixed use Building

- On the Ground Floor it Has Bank.
- On The FIRST Floor it Has Cafe, Bedrooms
- On the Second Floor it has 6 Bed rooms WITH balcony and Common Toilet
- On the Terrace It has Seating Area.
- the Site have sharp edges at the near the Front area of Road and Area of 387 Square meter the only 15.3 by 16 meter to be area used to built the G+2+T Mixed use Building and the rest is for Future Proposed Building.



TASK 4 G+3+T VILLA



Project: G+3+T Villa

Client: Mr. Atsedeke

Worku.

Location: Bahir dar ,
Ethiopia

TASKS: Full Design,

CHALLENGES

- With 150 Square meter of Site to creating Functional + Aesthetics+ Setback rule and Stanadrds.

PROCEDURES

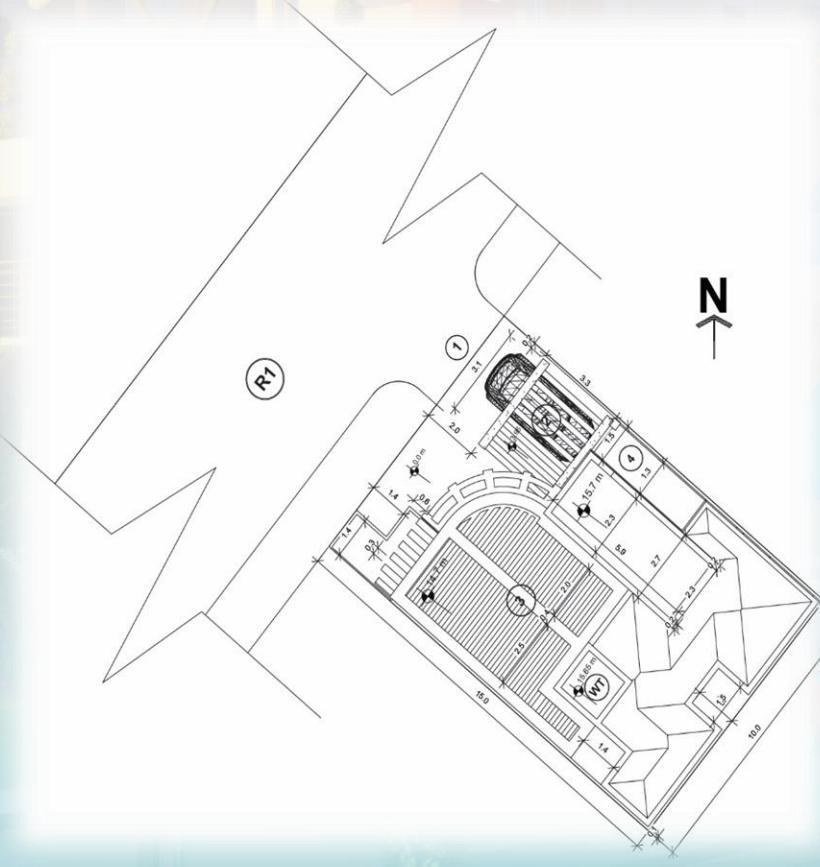
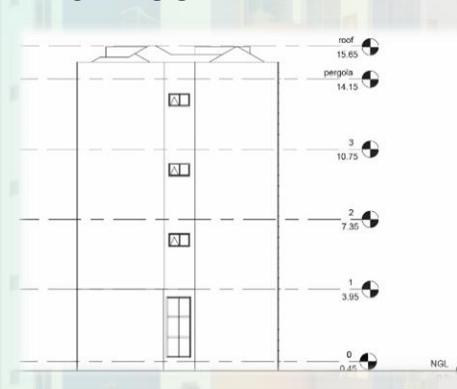
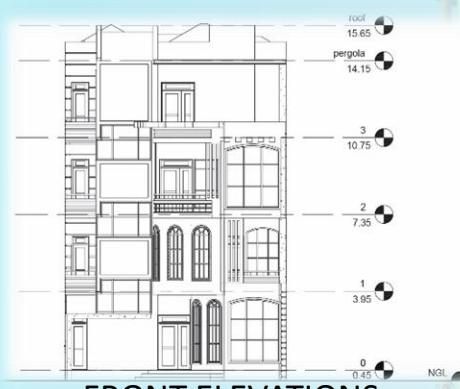
- Talk with About how many Functional Requirements.

SOLUTIONS

- Is Meeting Client needs with setback and some other Standards.



WORKING DRAWING OF G+3 VILLA



WORKING DRAWINGS

These Project is G+3 Semi Terrace Villa.

- On the Ground floor having Direct Linkages between the parking and Kitchen By Service entry of 1.5 meter of 1: 10 ramp Ratio.
- On the First floor has 1 master bedroom, and 2 bedrooms with Common toilet.
- On the Second Floor with family room Integrated with praying room and 2 bedrooms.
- On the Third floor it has terrace with seating Area and 2 bedrooms.



TASK 5 G+2 VILLA



PROJECT: G+2 VILLA
CLIENT: Mr. Abera Marew
LOCATION: Bahirdar, Ethiopia.
TASKS: Modeling and Rendering

CHALLENGES

- Firstly the Structural part Was changed as Client Needed so the Modeling also changed Simultaneously

PROCEDURES

- Checking to the Structure Part For Modeling it quickly as Possible





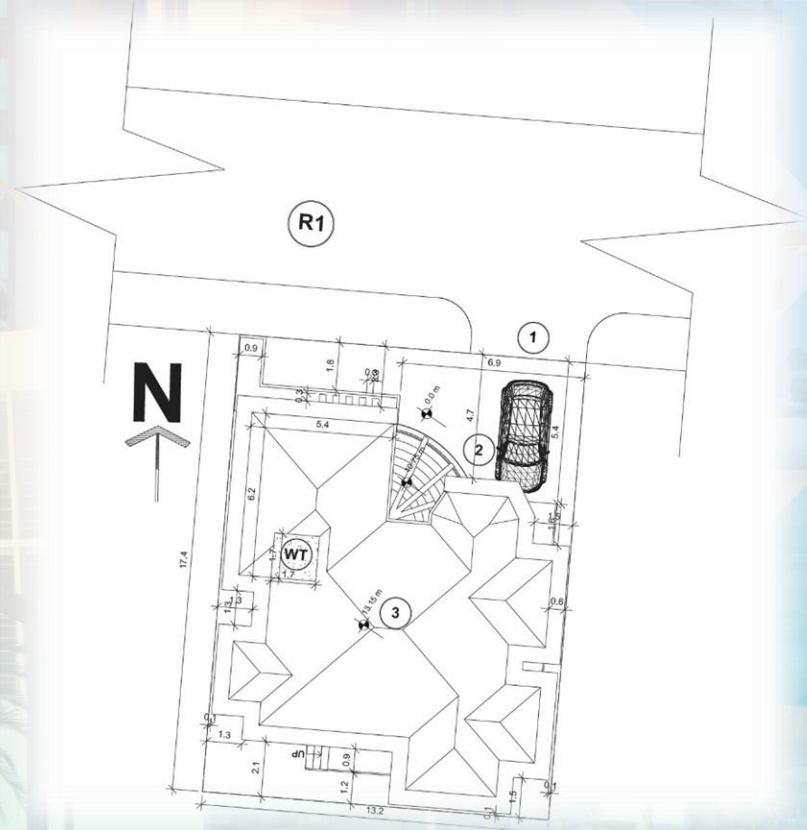
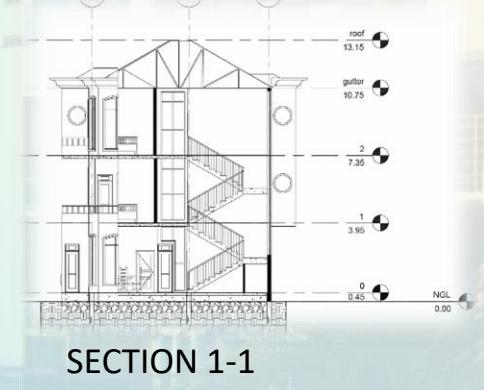
WORKING DRAWING OF G+2 VILLA



WORKING DRAWINGS

These Project is G+2 Villa.

- On the Ground floor having Direct Linkages between the parking and Kitchen By Service entry of 1.5 meter of 1: 10 ramp Ratio.
- On the First floor has 1 master bedroom, and 3 bedrooms with Common toilet.
- On the Second Floor with family room Integrated with praying room and 2 bedrooms.



RIGHT SIDE ELEVATIONS



TASK 6 LSHAPED G+2 VILLA



PROJECT: G+2 LSHAPED VILLA
CLIENT:
LOCATION: Bahirdar,
Ethiopia
TASKS: Full Design

CHALLENGES

- Lshaped Has a Character of the Corridor and No aspect.

PROCEDURES

- As Possible making the Modeling and CAD works Simultaneously.

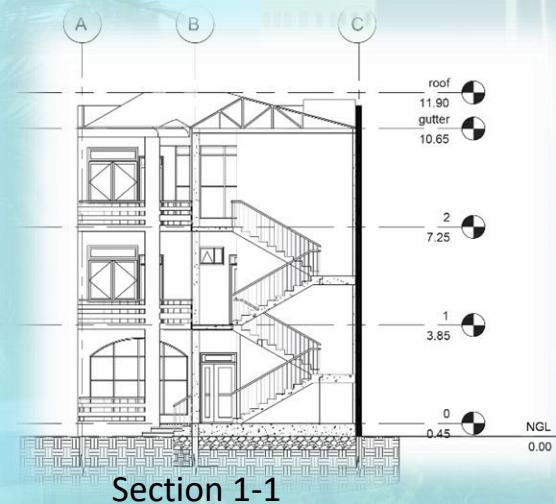
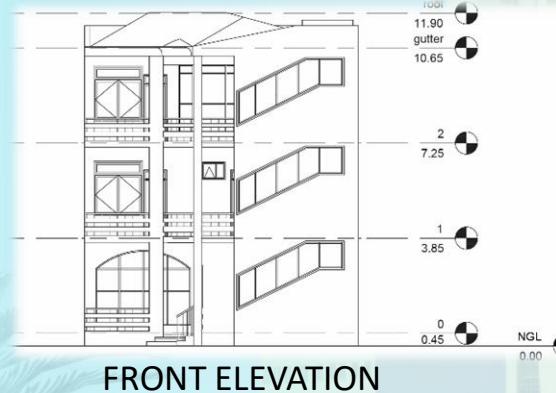
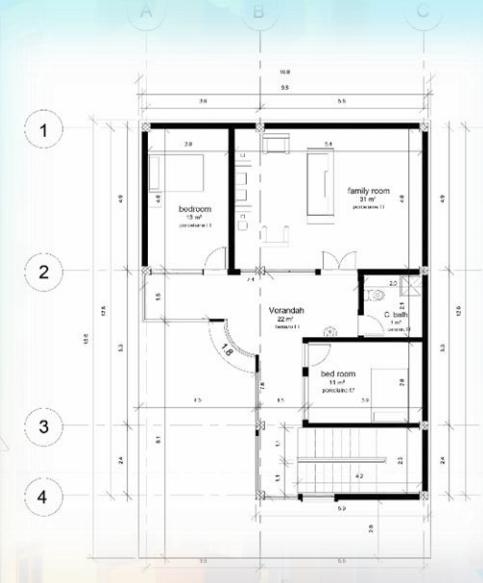
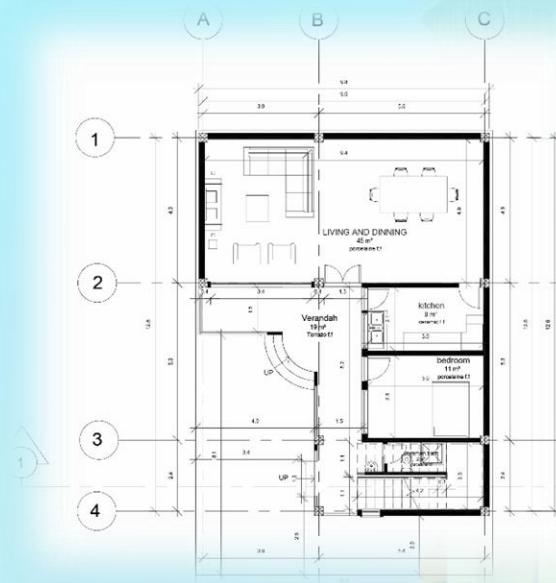
SOLUTIONS

- Making the layout Obviously the Lshaped planned having wide space at the Front for parking, having widen Compound.

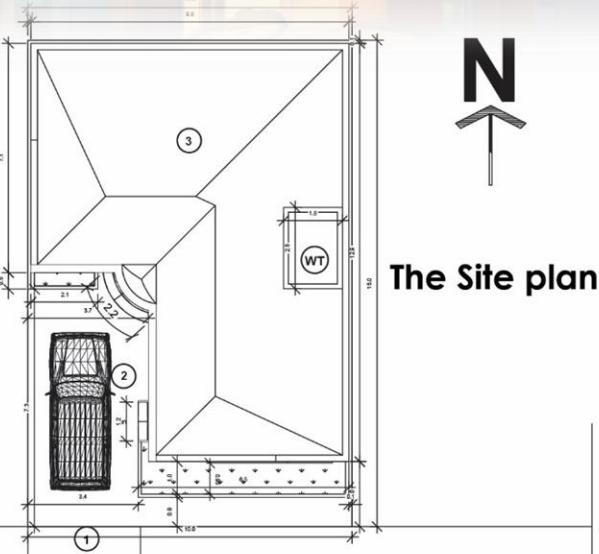




WORKING DRAWING OF LSHAPED OF VILLA



legend	
(1)	Main entry
(2)	Car parking
(3)	Proposed building
(WT)	Water tank
(R1)	Road 1



The SITE Plan

WORKING DRAWING

The Project is G+2 Lshaped villa.

- On the front There is Parking and on the Ground Floor There is Living + dinning, and the Kitchen accessed in the Outside.
- On the First floor there is Master bedroom, and bedroom with Common Toilet
- The Second Floor there is Family and Bedroom with common Toilet,



TASK 7 G+6, G+8 COMMERCIAL, APARTMENT



Project: G+6, G+8
Commercial + Apartment
Building

Client: Mosco Flour
Pasta, And Macaroni SC.

Location: Bahirdar,
Ethiopia

TASK: Modeling +
Rendering

CHALLENGES

- Modeling of Large building with Owner of SC is less façade cost

PROCEDURES

- Is the taking cad drawing from CAD operators and go to the next Step.

SOLUTIONS

- Trying to do it Accurately and window frame facade



PROCEDURES I HAVE BEEN USING TO DO MY TASKS

- Taking notes and sketches
- Selecting proper software
- Proper management so my resource like time



CHALLENGES I HAVE FACED



- I was also challenged by some technical issues like the size of **structural elements** and also **placing the columns**
- The limitation in cost and technologies.
- **The rigidity of project timelines** which made it even harder to manage my time properly and apply what I have learned in the academic world.
- **Convincing the clients** was also a challenge because most of them were not open to new ideas.



MEASURES I HAVE TAKEN



- ✓ By asking and observing how tasks are taken care of by the professionals
- ✓ Asking about the trends used in the local construction industry
- ✓ By taking my tasks home to work overnight, staying over time at the office and working on weekends, and starting the projects early.
- ✓ The rigidity of project timelines which made it even harder to manage my time properly and apply what I have learned in the academic world.
- ✓ Making presentations as simple as possible and straight forward makes it easy for the clients to understand the designs,



BENEFITS I GAINED FROM THE INTERNSHIP



BENEFITS

- **Practical skills**, developing working drawings, detail drawings 3d model of any design, and software's such as AutoCAD, REVIT , Lumion, Photoshop And Illustrator , And organizing files on the computer.
- **Performance**, generally I was learning simply by observing and asking about different work issues rather than practicing them myself.
- **Theoretical knowledge**, The most important theoretical knowledge I have gained during this time was the decision making and idea processing.

INTERPERSONAL COMMUNICATION SKILL

- **Team playing skill**, During this internship period I have been working in team with my supervisors and specially, with Architect Habtegiorgis Tadele
- **Understanding work ethics**, to being accountable for what I did, punctual, respecting the working hours, respecting office disciplines, reliable, honest and being cooperative.
- **Entrepreneurship skill**, Management skill on my resources like time ,Ability to work effectively in team and independently, ability to make bold decisions on the right time, a capacity to handle different tasks at a time, ability to work under pressure or work load, being self-confident and risk taking ,Ability to be innovative in deferent aspects ,And being result oriented



CONCLUSION

In my conclusion, this internship was the time I was able to explore different kind of knowledge and skills from my supervisors and other coworkers. I was also exposed to different kind of works and projects which thought me a lot of different issues. Since I have started the practice in a very early time I was able to explore and learn a lot of things from my supervisors in the hosting company. I was able to adopt a capacity to consistently work on one project looking forward for its progress and also accomplishing other activities at different times. But sometimes I was somehow bored because of the continuation of tedious works that continuously repeated because of various reasons.



THANK
YOU!