

CURRICULUM VITAE

BILKAY BEGÜM PEKER

Date of Birth: 13/01/1994 Hometown: Ankara, Turkey <u>Phone:</u> (+90) 533 238 58 28 <u>E-mail:</u> bbegumpeker@gmail.com <u>Website:</u> linkedin.com/in/begumpeker

EDUCATION

2012-2016 Bilkent University, Turkey

Bachelor of Architecture

GPA: 3.13/4

2015 Politecnico di Milano, Italy

Erasmus Programme

2006-2012 Bilkent Laboratory & International School, Turkey

High School

1999-2005 British Embassy School Ankara (BESA), Turkey

LANGUAGE PROFICIENCY

Turkish •••••

English •••••

Italian •••00

French • 0 0 0 0 0

AWARDS AND HONORS

Achieving an Honor's Degree from Bilkent University in:

2015-2016 Spring Semester

2015-2016 Fall Semester

2014-2015 Spring Semester

2014-2015 Fall Semester

2013-2014 Fall Semester

2012 July Certificate of International Baccalaureate (IB)

from Bilkent Laboratory and International

School, Ankara, Turkey

2011 June Certificate of Middle East Technical University

(METU) basketball team after playing for six

years.

2010 June Certification of participation to the Duke of

Edinburgh, Silver Award

2009 July Certificate of winning first prize in the drawing

competition for "Stepping Stones" magazine

2009 June Certification of participation to the Duke of

Edinburgh, Bronze Award

EXHIBITIONS

2016 October TSMD Architecture Students' Project Exhibition

2016 May Final Jury Exhibited at TSMD Architectural Center

2015 October Architects' Association 1927 Exhibition of

Selected Works of Architecture Students

- Bilkent University Representative

2012 June International Baccalaureate, High Level

Art Students' Workpieces Exhibited

EXPERIENCE

Member and Student Representative Board

2014-2016 Architects' Association 1927, Ankara, Turkey

Design / Build Lab

2014-2015 Bilkent University

Study Abroad Programme with Bilkent University to Verona, Rome,

2014 June Florence, Milan and Venice, Italy

Construction Site Intern

2014 July Yıldızlar Group

Architectural Intern

2010 July MTM Architecture 2015 August A Architectural Design

Conceptual Drawing for Architects and Designers

2013 July Central Saint Martins College of Arts and Design,

London, UK

Construction Builder

2011 April Attending the HABITAT activity in Beius, Romania.

Volunteering to help with building a house.

Architecture Career Discovery Camp

2010 August Rensselaer Polytechnic Institute

Designer

2008-2010 Press Team Member for MUNESCO, Ankara, Turkey

SKILLS

 Revit
 •••••

 AutoCAD
 ••••

 Sketch Up
 ••••

 Rhino
 ••••

 3DS Max
 ••••

 Lumion
 ••••

Grasshopper •••••
Adobe Photoshop

Adobe InDesign
Adobe Illustrator

Microsoft Office

Laser Cutting

Sketching •••••
Physical Modeling

Wood & Metal Skills ••••
Hand Drafting •••••

PERSONAL INTERESTS

Analog Photography with Soviet Russian Vintage Camera Zenit 18

Sculpting in wood, metal and autaerated concrete

Drawing and sketching in charcoal Playing the piano and trumpet

Playing basketball, swimming and working out

Performed ballet for ten years

Traveling

REFERENCES

Visiting Associate Professor, Mark Paul Frederickson Department of Architecture, Bilkent University

 $e\hbox{-}\textit{mail: mpf} @\textit{u.arizona.edu} \ / \ \textit{frederickson} @\textit{bilkent.edu.tr}$

Associate Professor, Founding Chair, Meltem O. Gürel Department of Architecture, Bilkent University

e-mail: mogurel@bilkent.edu.tr

Associate Professor, Glenn Kukkola

Department of Architecture, Bilkent University

e-mail: glenn.kukkola@bilkent.edu.tr

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Various Art and Photography

Biomass Powerplant and Algae Farming

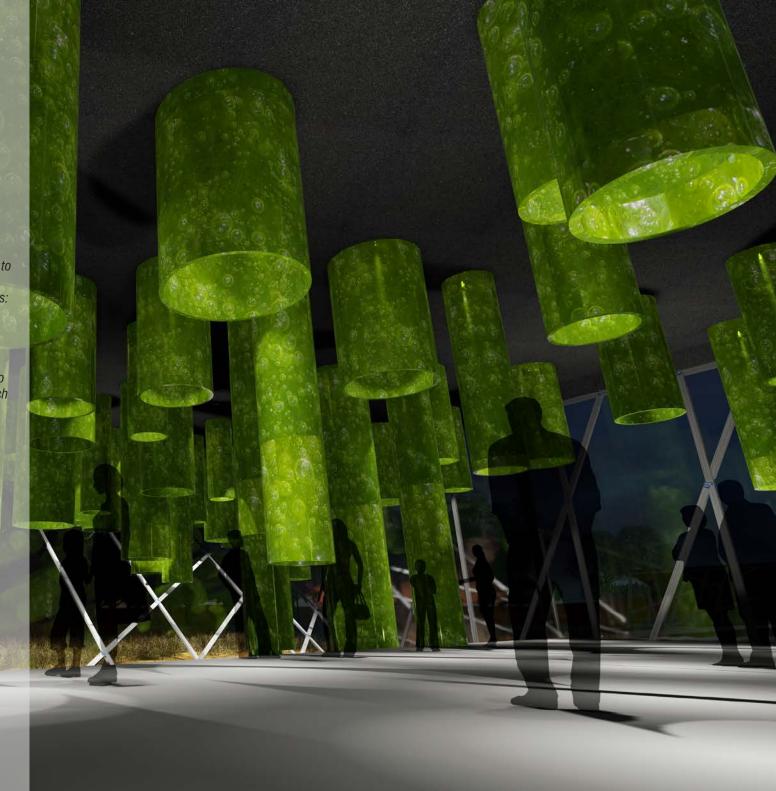
<u>Project Type:</u> Individual Academic Work <u>Location:</u> Bilkent University, Ankara, TURKEY

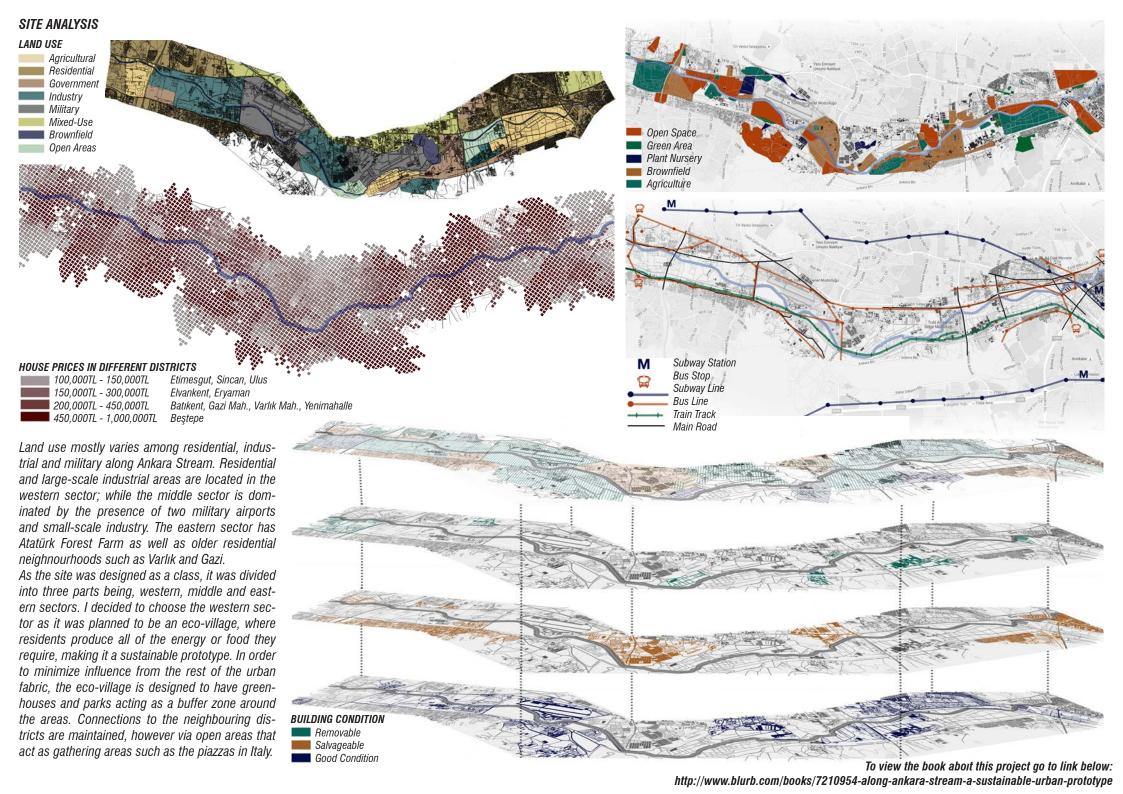
Year: 2015-2016 Spring

Instructor: Mark Paul Frederickson, frederickson@bilkent.edu.tr

This project focuses on the emblamatic of the forementioned developmental issues in that it offers an alternative vision for the Ankara river basin and urban riverfront. The overarching intent is to suggest a sustainable urban living prototype for Ankara. A prototype that approaches sustainability across an array of dimensions: Economic, Environmental, Cultural, Aesthetic and Functional.

We had the chance to choose the type of building that we were going to design, as it was considered the final academic project. I designed a sustainable Biomass Powerplant that was a Net Zero Building itself, as it consisted a landscape of algae farming, which was located by the Ankara Stream and also flowed to and in the architecture of the Powerplant.

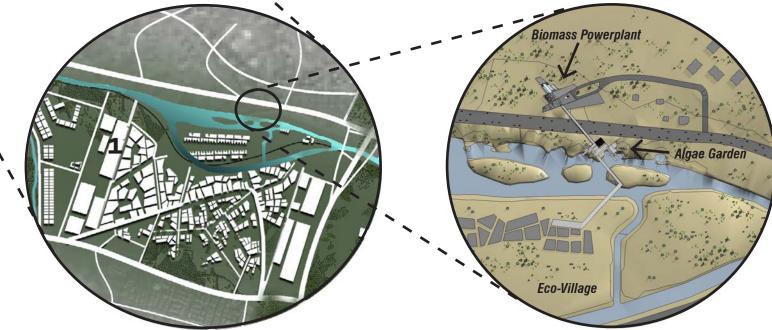


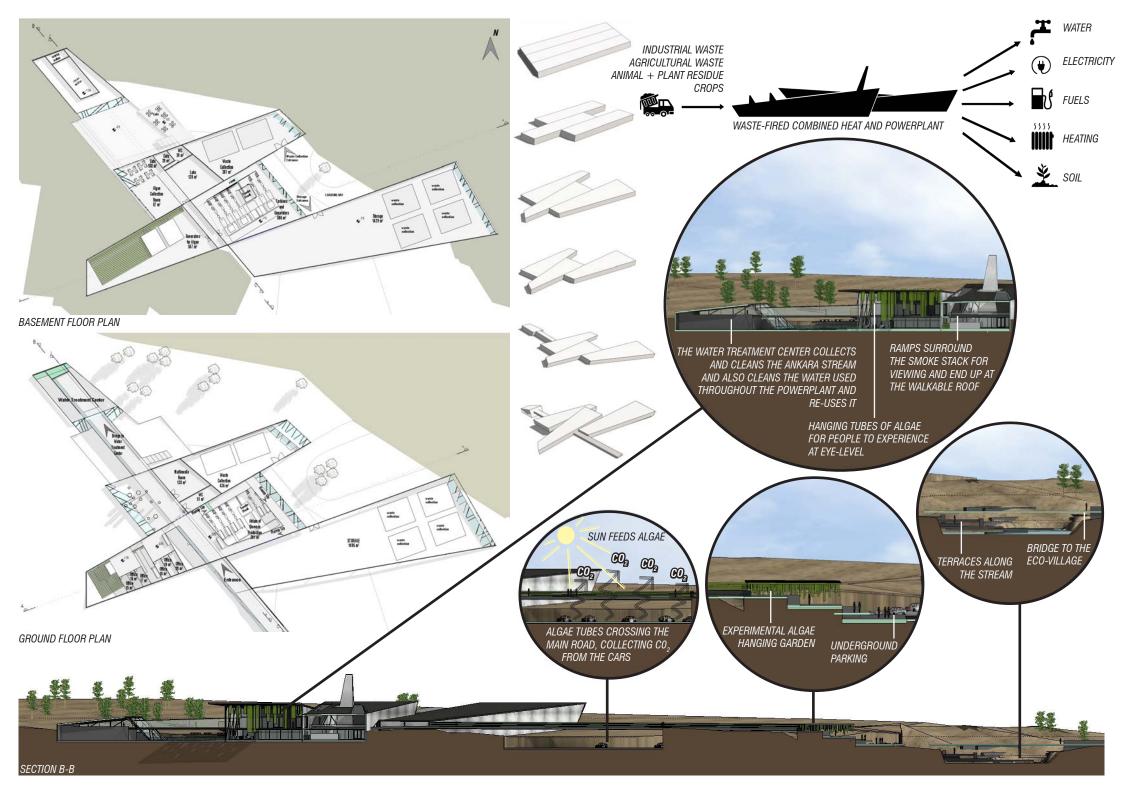


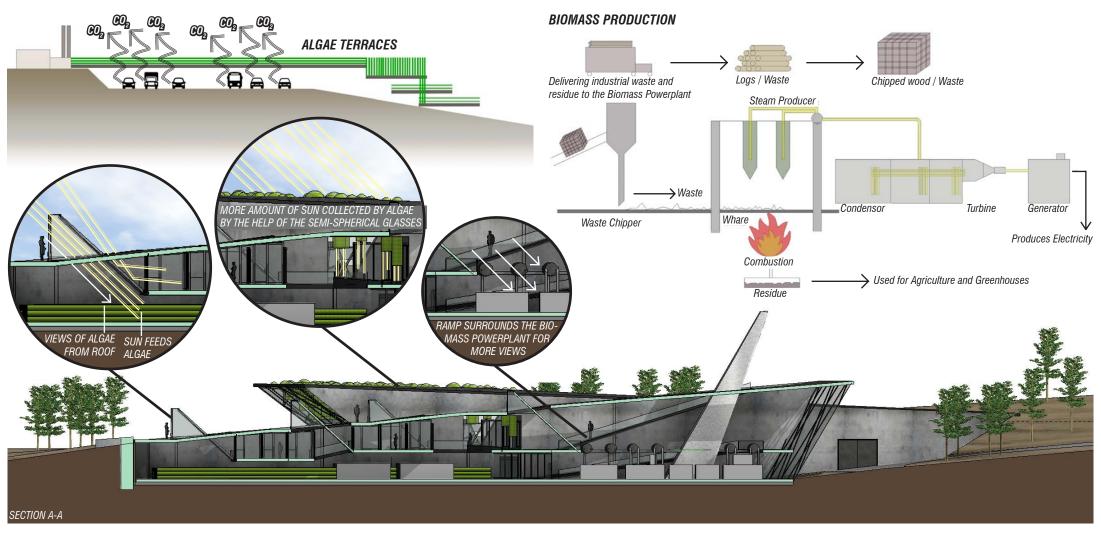
SYNTHESIZED MASTERPLAN



- 1. Eco-Village
- 2. Water Treatment
- 3. Mixed-Use
- 4. Park with Sport Facilities
- 5. Preserved Area
- 6. Vocational School
- 7. Residential Area
- 8. Research Center
- 9. Eco-Village
- **10.** Green Houses
- 11. Affordable Housing
- 12. Wild-Life Observation Park
- 13. Green Houses and Botanical Garden
- 14. Wholesale Food Market
- **15.** Affordable Housing
- 16. Mixed-Use



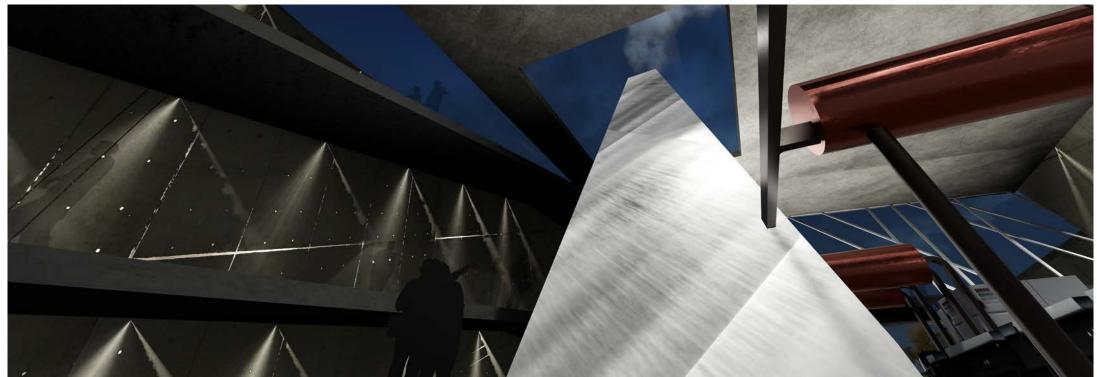




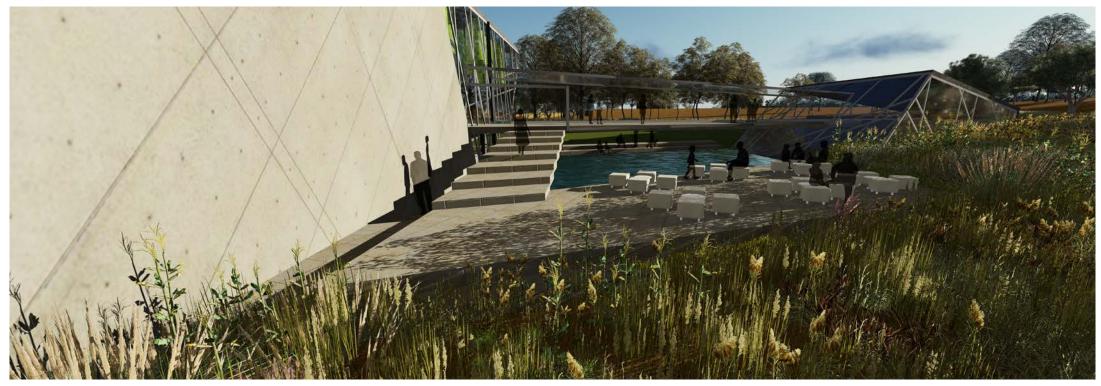














Space, Science and Technology Centre

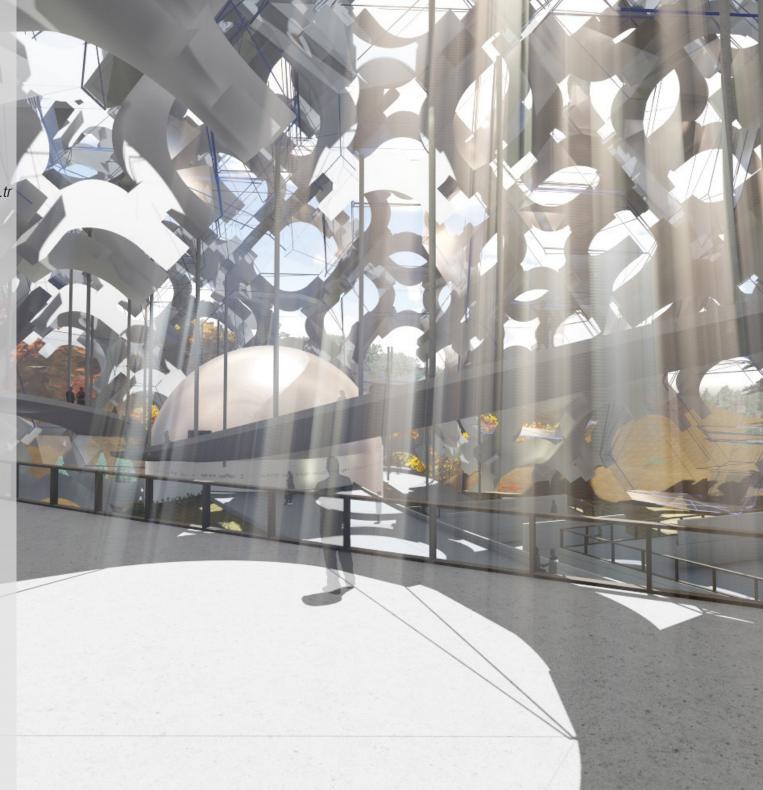
<u>Project Type:</u> Individual Academic Work Location: Bilkent University, Ankara, TURKEY

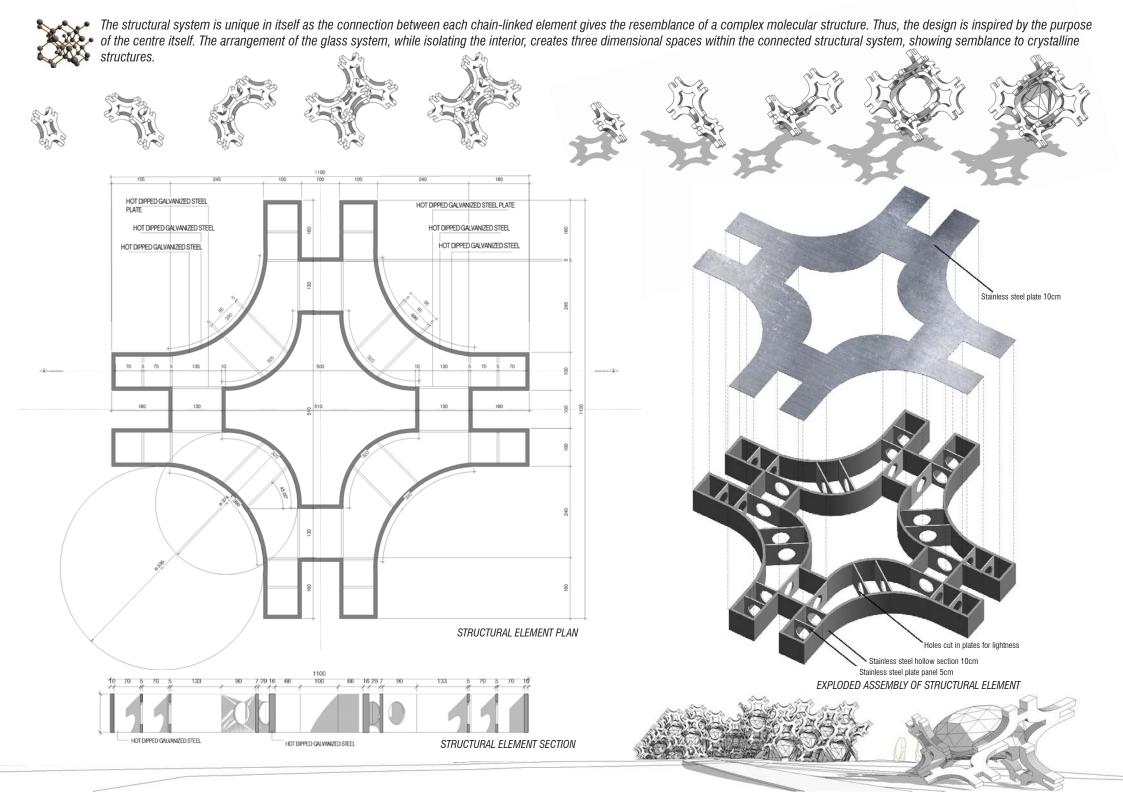
Year: 2015-2016 Fall

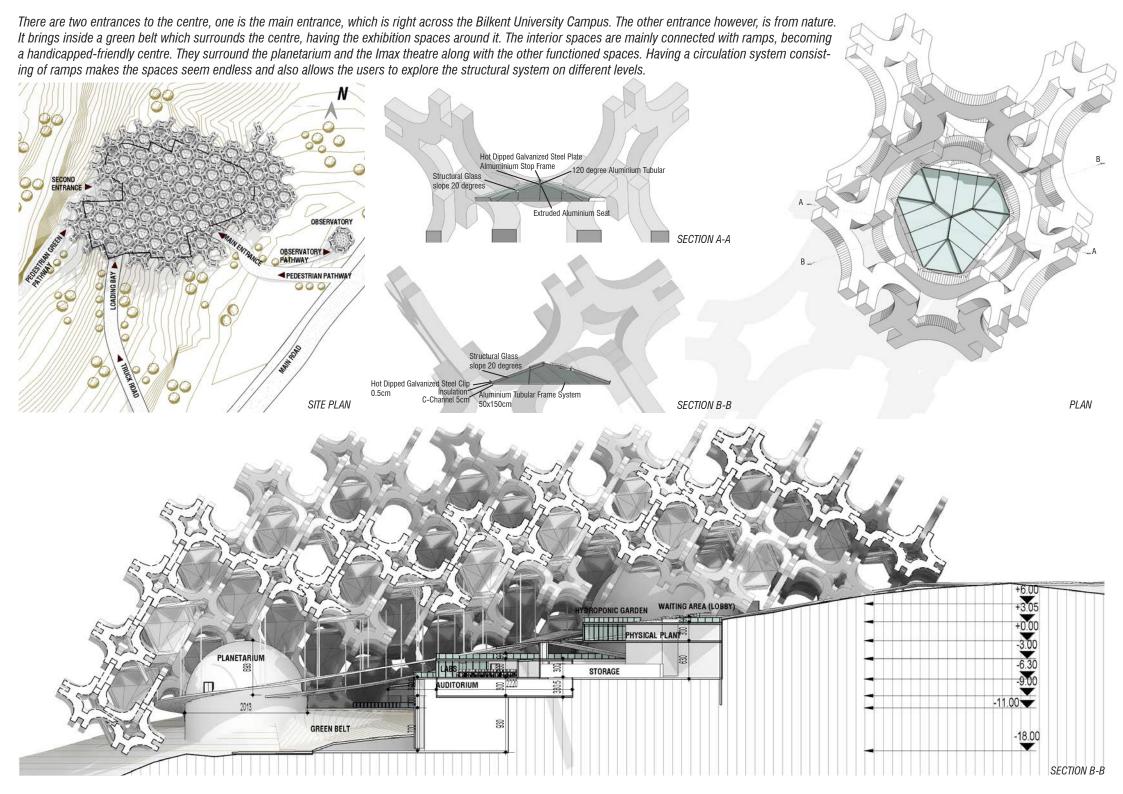
<u>Instructors:</u> Glenn Kukkola, glenn.kukkola@bilkent.edu.tr Yasmin Kaygusuz, yasmin.kaygusuz@bilkent.edu.tr

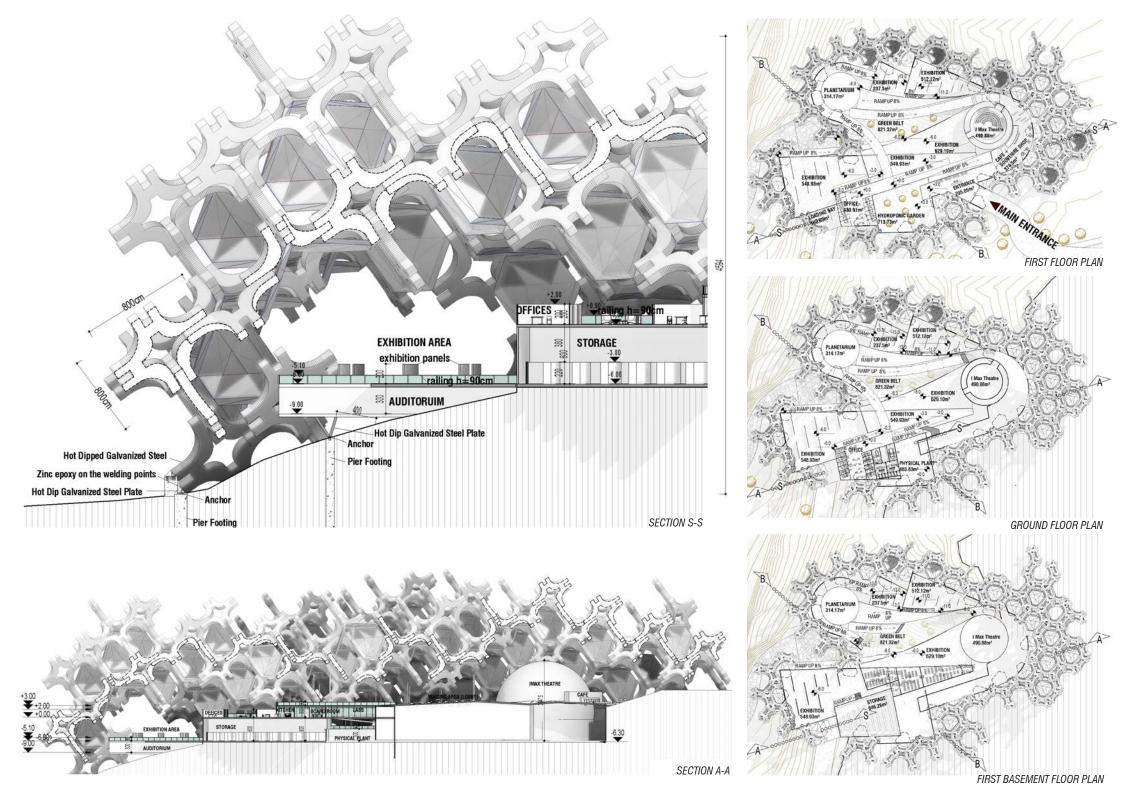
The Centre is to be designed using new building technologies and should be selected to reflect the theme and purpose. It is an architectural response to both the program and the desire to highlight advances in space, science and technology. In addition, the process of design should engage both new building technology and the new technology to model and develop the design using software and modeling tools such as 3D printers and laser cutting. The design will have a maximum building footprint of 3000 sqm and may be a maximum of 3 levels excluding special purpose buildings, such as observatory.

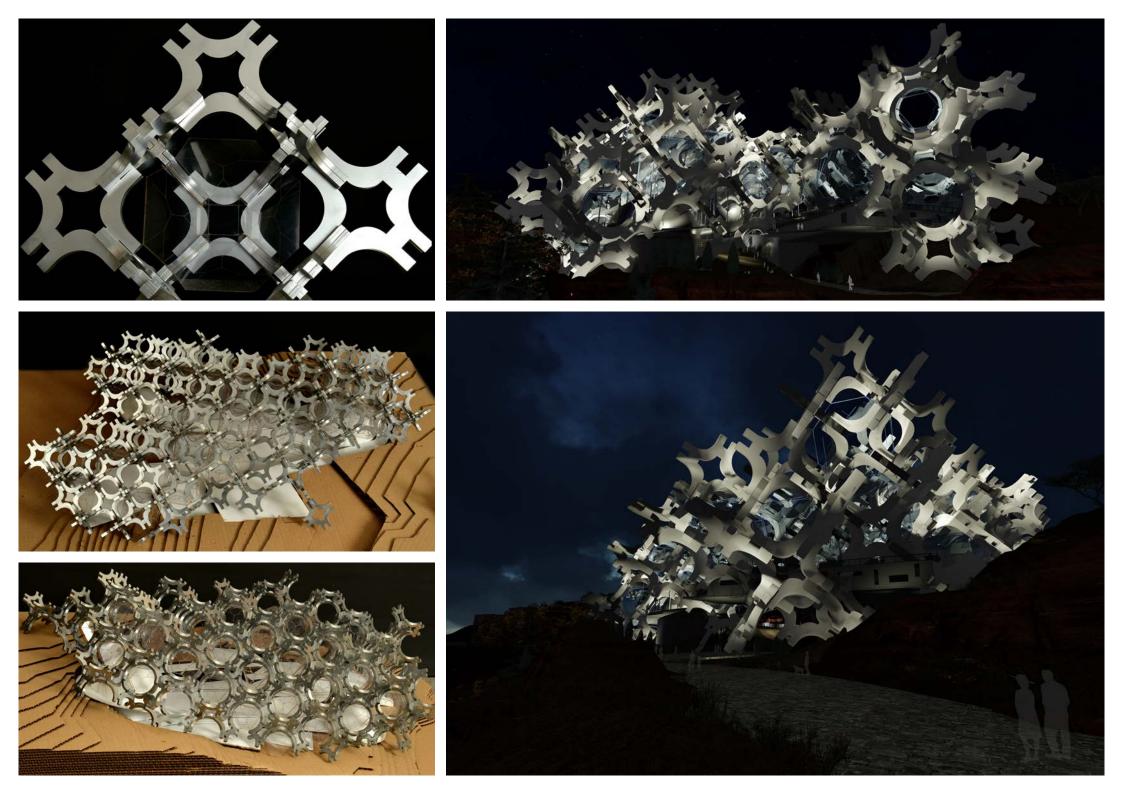
The Space, Science and technology Centre is located on the Bilkent University Campus, which is designed to educate and inform the public on technology that exists and advances being made in the areas of Astronomy, Space exploration, Science, and technology (genetics, medical, and information technology). The Centre has many exhibition spaces, public education areas, a demonstration lab, multimedia presentation spaces, conference rooms, offices, a fully functional observatory with a mounted telescope with imaging systems, as well as a hydroponic garden, a physical energy plant, an Imax theatre, and a planetarium. It also consists of a storage for the exhibitions and a loading bay next to it for easy transportation.

















Townhouse Design in Milan

Erasmus Exchange Programme - Politecnico di Milano Scuola di Architettura Civile - Architectural Design Studio II

Project Type: Group Work of Three - Academic Work

Location: Via Fratelli Castiglioni, Milan, ITALY

Year: 2014-2015 Spring

Instructors: Caja Michele Giovanni, michele.caja@polimi.it

Pensa Elvira, elvira.pensa@polimi.it

This project was proposed to re-purpose an empty land right next to Milan's modern district, Porta Nuova. As a group of three, we were responsible to design a townhouse where the ground floor was open to public and the upper floors were functioned to be residential.

We designed a townhouse having the groundfloor to be an art gallery with a two storey high space. This space could be viewed from the second floor as it was an atrium, allowing free circulation around it.

The residential apartment flats are located from the first floor to the fifth floor. As we get higher to the top, the number of flats decrease from eleven apartment flats per level to only two large flats, also consisting a large terrace.

The Townhouse completes its surrounding buildings with its straight corners, forming a longitudinal shape as seen in the site plan below. The thin L-shaped barrier around the building is an existing wall, which isolates the military apartments behind it, for safety reasons.







Section A-A

North View

South View



CO-HOUSING PROJECT: Dormitory for Students

Project Type: Individual Academic Work
Location: Bilkent University, Ankara, TURKEY

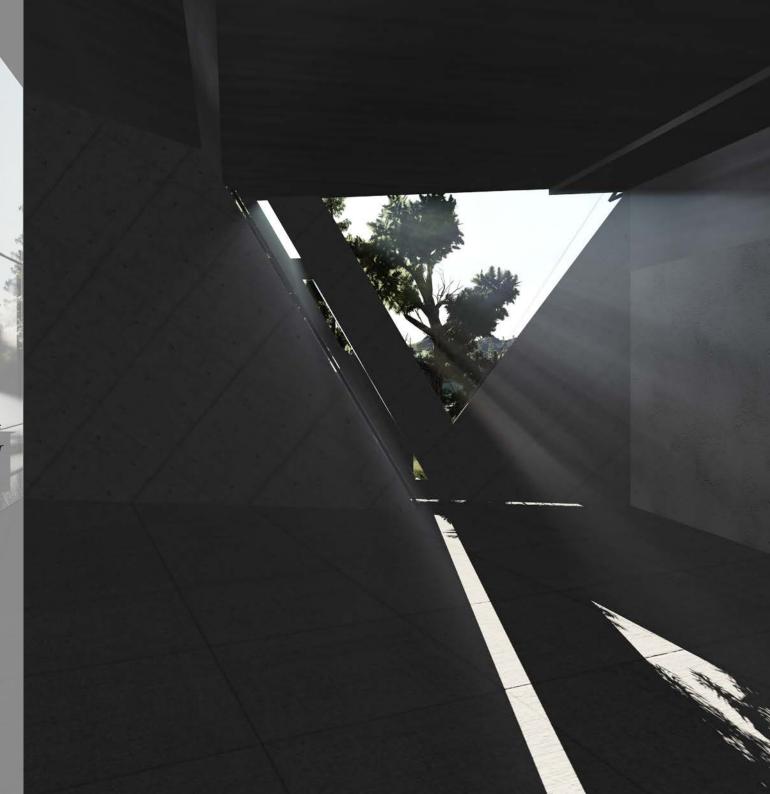
Year: 2014-2015 Fall

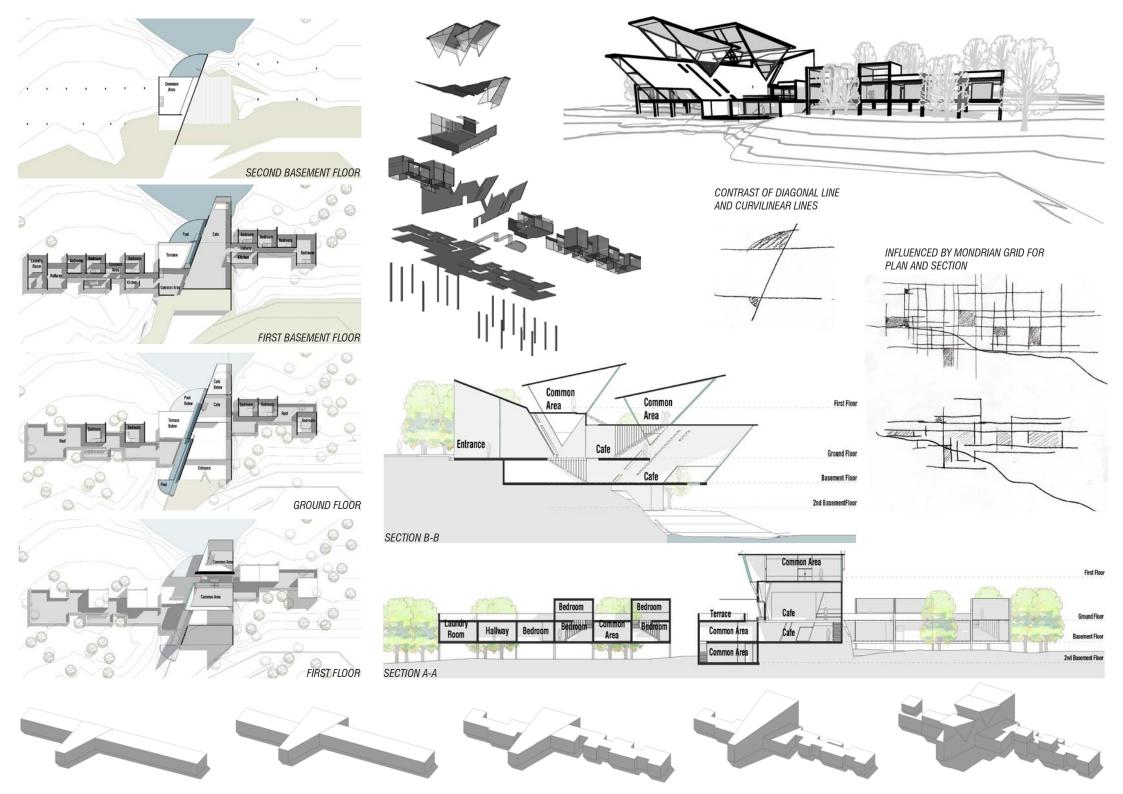
Instructor: Mark Paul Frederickson,
frederickson@bilkent.edu.tr
Giorgio Gasco, giorgio.gasco@bilkent.edu.tr

The co-housing project started by developing a master plan for the whole site and then focusing on a functional building that is appropriate for the site. The function of the co-houses were planned mainly for academic instructors, students and admins of Bilkent University. The site is located around a small lake which is located in the east campus of Bilkent University.

The design of the co-housing project was done in groups of three. I designed a dormitory for students whereas my other two groupmates designed a common area and a dormitory for the instructors.

My design of the dormitory consists of single and double bedrooms as well as studio rooms, where certain roomtypes have a top floor. The laundry rooms and kitchens are placed accordingly. There are also common areas for relaxing, working and gathering. The central part of the dormitory has a two-storey high cafe where the two triangular prism-like areas, being the common areas are visible. The building has openings for light and viewing mostly around the common areas, where students can enjoy the nature of the area. The building also encloses nature in between the bedrooms, as the trees achieve privacy.













BETWEEN TRANSIT

BETWEEN TRANSIENT AND PERMANENT:
A Guesthouse for an Artist

<u>Project Type:</u> Individual Academic Work <u>Location:</u> Florya, Istanbul TURKEY

Year: 2013-2014 Fall

Instructor: Meltem E. Gürel, mogurel@bilkent.edu.tr

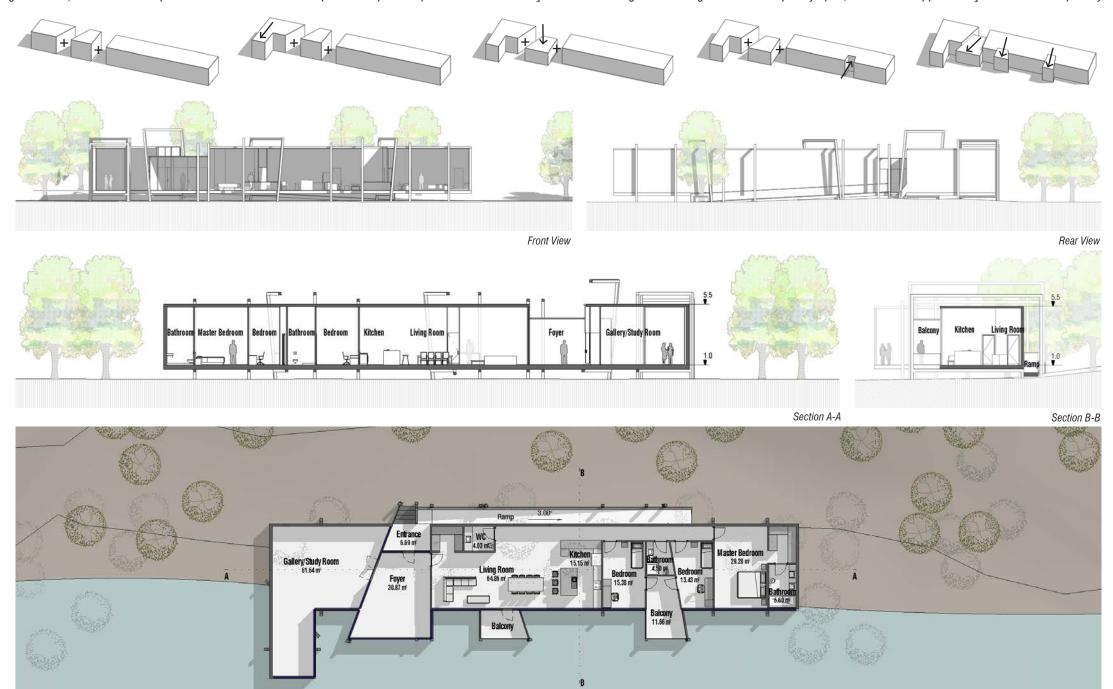
The purpose of this project was to design a guesthouse for a visiting scholar. The guesthouse should be designed for a temporary residence for such a visitor to have a comfortable stay for a period of time. It was designed in such a way that the number and staying condition of people, may vary according to the visitor's status. The visitor may come alone or with family and friends. Furthermore, the guesthouse was designed in a flexible way. The total indoor area of the temporary guesthouse does not exceed 250 square meters.

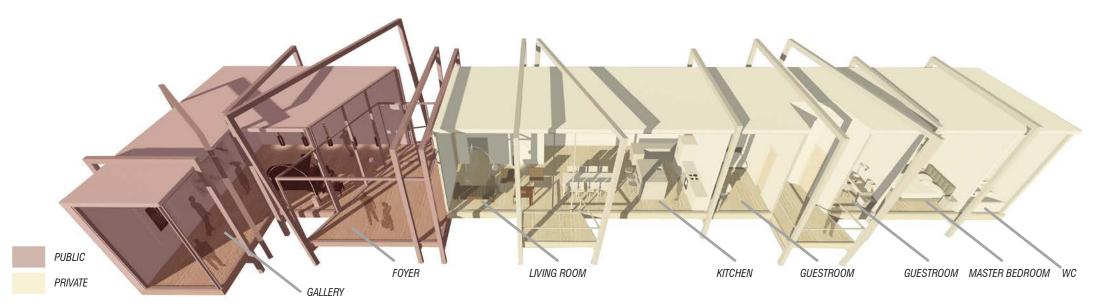
The site for the guesthouse is the property of the Florya Atatürk Marine Mansion (1935), designed by a famous Turkish architect Seyfi Arkan. The mansion is located in the sea, with a wide view of the sea and landscape. As it is located in the sea, I designed it so that it would be standing on steel legs.

As I was very influenced by the Florya Atatürk Marine Mansion, I decided to make my building in such a way that it fits the mansion like a jigsaw puzzle, with its L-shape. However, I didn't want the building to be more arrogant than the mansion therefore I placed it half in water and half on land. I thought that the uniqueness and individuality of the mansion should be protected prudently.



The guesthouse is standing up one meter above the ground by the help of steel frames and beams. The system will be mostly made by the help of I-beams, which will be located under the building, and around it too. The beams on the façade will surround the building, emphasizing many things. Mostly, the public and private space will be emphasized by the beams, as it divides the building in parts. Another important aspect is that the beams will show an emphasis on the entrance. I showed this by density; placing more beams close to the entrance and less beams away from the entrance. Also I used the placing of straight beams and angled beams; this is seen as a pattern with relation to how the public and private space is divided. The façade of the building that is facing the sea is completely open, whereas the opposite façade is closed for privacy.





The material I chose for the façade that is closed is marble. In the detail of the marble, fossils of marine life are visible, giving a close relation to where the building is close to, the sea. The interior consists of a travertine flooring, where the deep textures emphasize the material. The frames and beams are steel. The roof is a material called polyester membrane, which is water impermeable. I chose these materials, thinking about every condition of the landscape, for example a stormy weather, due to its environmental location.





<u>Project Type:</u> Academic Group Work

Location: Bilkent University, Ankara TURKEY

<u>Year:</u> 2013-2014 Spring <u>Instructor:</u> Ahmed Kamal Ali

The Design/Build Lab is a part of ARCH 252 Construction and Building Materials Course, which aims to teach construction methods by personally participating the course. The BT-MFL intends to support the education of architecture by demonstrating building products, process, innovation and multidisciplinary collaboration.

We were inspired by the Kilim Vase from the Paşabahçe/ Zevk-i Selim Collection. The art of weaving, the history that spans as far back as the days of humans early settlements. Our Turkish textile arts have won the admiration of the world with their motifs, colors and materials. The Kilim Vases use motifs and forms that symbolize the sacredness of the male and female figures.

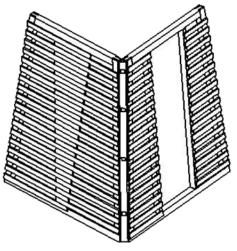




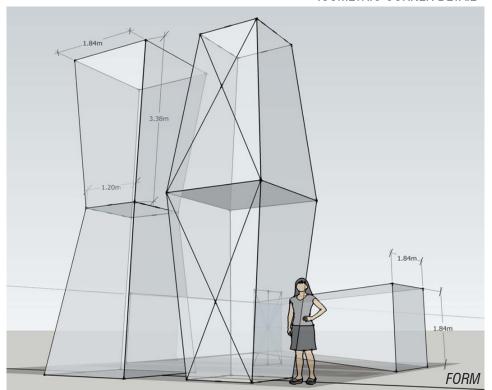
As this was a group work consisting of 20 students, we were divided in teams. I volunteered to do the drawings and help with the 3D-model-making. The project turned out to be very organised as every student worked during weekdays and weekends.

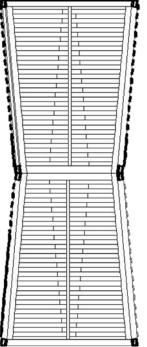
INSPIRATION OF THE KILIM VASES

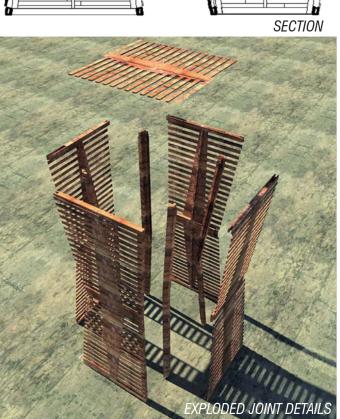
The project took one whole semester to finish, as collecting the wood pallets and dismantling them one by one took a vast amount of time. However, we assembled our group project by June 2014. It is still being exhibited on the university grounds.

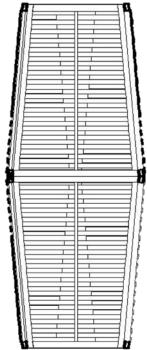


ISOMETRIC CORNER DETAIL



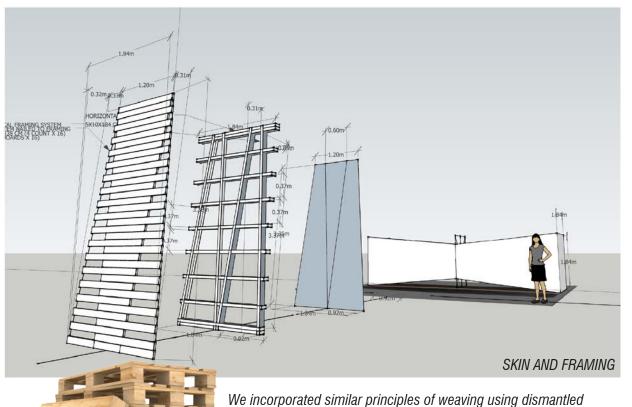




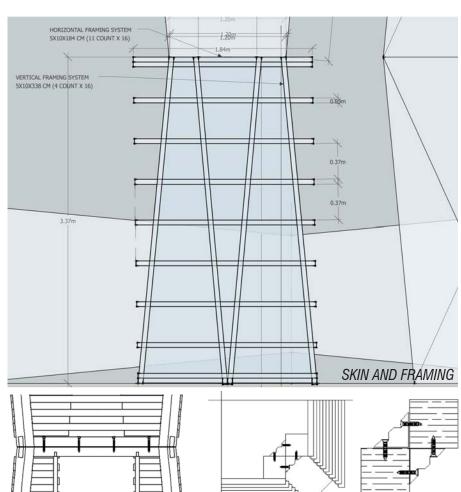








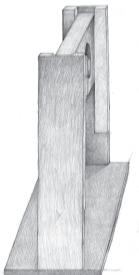
We incorporated similar principles of weaving using dismantled wood from shipping pallets, this way, we increased awareness of material reuse and enhanced sustainable design thinking.





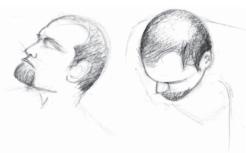


Various Art and Photography



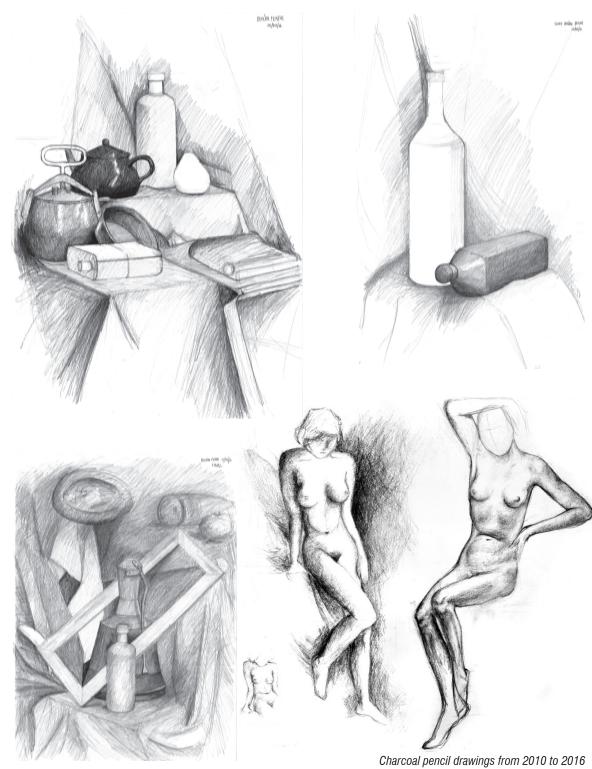














Tiki Sculpture, carved from aerated concrete, 2016



Tiki Sculpture, carved from wood, 2011



Collage of seff portrait, using leaves and colored paper, 2012



Marble Table, motifs carved by acid etching method, 2012



Design of a bicyle, using welded steel tubes and bicycle tires, 2010



Life in a Hourglass, glass sculpture, 2011









Perception of Travel, using analogous and complementary colors, watercolor, 2012



Sun printing studies using potassium dichromate, photos of Istanbul, 2011

All photos taken with Zenit 18 Camera



MAXXI Museum, Rome, ITALY



MAXXI Museum, Rome, ITALY



MAXXI Museum, Rome, ITALY



Reichstag Building, Berlin, GERMANY



Shell House, Berlin, GERMANY



The Jewish Memorial, Berlin, GERMANY



The Jewish Museum, Berlin, GERMANY



The Brion Cemetery, Treviso, ITALY



The Brion Cemetery, Treviso, ITALY

All photos taken with Zenit 18 Camera









Rome, ITALY

Ankara Castle, Ankara, TURKEY







The Jewish Museum, Berlin, GERMANY

Metropol Parasol, Sevilla, SPAIN

The Sony Center, Berlin, GERMANY









Milan, ITALY Plaza de España, Sevilla, SPAIN

Madrid, SPAIN

Asakusa Sensoji Temple, Tokyo, JAPAN

