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INTERIOR ONE-POINT PERSPECTIVE PEN DRAWING
COURSE: INTRODUCTION TO ARCHITECTURAL GRAPHICS, FALL 2015
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INTERIOR TWO-POINT PERSPECTIVE PEN DRAWING
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Wendy J Amaya
“ARCHITECTURE IS REALLY ABOUT WELL-BEING,
I THINK THAT PEOPLE WANT TO FEEL GOOD IN A SPACE...
ON THE ONE HAND IT’S ABOUT SHELTER, BUT IT’S ALSO ABOUT PLEASURE.”

ZAHA HADID
DRAWING HAS BEEN AN ESSENTIAL LEARNING TOOL TO CAPTURE TEXTURE AND BEAUTY. THROUGH DRAWING, I WAS EXPOSED TO SEE THINGS IN A DIFFERENT VIEW. I WAS ABLE TO UNDERSTAND IN DETAILS HOW SOMETHING AS SIMPLE AS A CHAIR CAN BE COMPOSED OF GEOMETRIC SHAPES. DRAWING WAS MY INTRODUCTION TO THE WORLD OF ARCHITECTURE THROUGH LINE, SHADING AND COMPOSITION OF DRAWING.

THE LOVE FOR DRAWING AND ARCHITECTURE STARTED SINCE I WAS A LITTLE GIRL LOOKING THROUGH FAMILY PHOTOS OF MY FATHER WORKING IN CONSTRUCTION. HIS HARD WORK IN THE INDUSTRY OF CONSTRUCTION WAS AN INTRODUCTION TO MY NOW PASSION FOR BUILDINGS.

IN MY SENIOR YEAR IN HIGH SCHOOL, I DECIDED TO STUDY IN MONTGOMERY COLLEGE BECAUSE IT PROVIDED AN OPPORTUNITY TO PREPARE MYSELF IN THE INDUSTRY. IN MY FIRST ARCHITECTURE CLASS, I WAS INTRODUCED TO AN INCREDIBLE ARCHITECT ZAHA HADID. HER BUILDINGS BECAME AN INSPIRATION THAT A BUILDING CAN BE DESIGNED SO DIFFERENT AND UNIQUE. SHE WAS BREAKING THE BOX OF HOW BUILDING SHOULD LOOK. I WANTED TO BE LIKE HER, A SUCCESSFUL AND INTELLIGENT WOMAN ARCHITECT. SHE PROVED THAT WOMEN CAN INFLUENCE THE INDUSTRY OF ARCHITECTURE AND CONSTRUCTION.

AS I WAS TAKING ARCHITECTURE CLASSES, I HAD THE OPPORTUNITY TO WORK IN A DESIGN AND BUILD COMPANY, YBM CONSTRUCTION. IT HAS BEEN AN INCREDIBLE LEARNING EXPERIENCE. I AM A PROJECT COORDINATOR AND I OVERSEE ALL THE PROJECTS THAT THE COMPANY HAS. I WAS ABLE TO LEARN IN REAL LIFE SITUATION HOW DESIGN AND CONSTRUCTION OF AN INTERIOR BUILD-OUT IS: DESIGN PROCESS, PERMIT PROCESS, INSPECTIONS, CONSTRUCTION MILESTONES AND OCCUPANCY. EVERY DAY I EXPERIENCE SOMETHING NEW ABOUT THE INDUSTRY I WANT TO BE INVOLVED IN MY FUTURE.

THROUGHOUT MY YEARS AT MONTGOMERY COLLEGE, I HAD THE OPPORTUNITY TO WORK IN THREE COMPETITIONS THAT CHALLENGED ME AS AN ARCHITECTURE STUDENT TO PROBLEM SOLVING THROUGH DESIGN COMPOSITION, IMPLEMENTATION OF ENERGY INNOVATION, AND BE ABLE TO FULFILLED THE REQUIREMENTS IN A SATISFACTORY WAY. THE COMPETITIONS WERE A GREAT LEARNING EXPERIENCE THAT EXPOSED ME AS AN ARCHITECT STUDENT TO THE INDUSTRY OF ARCHITECTURE AND CONSTRUCTION.

AS AN ASPIRING ARCHITECTURE STUDENT, I AM LOOKING FORWARD TO ACCOMPLISH MY EDUCATIONAL, PROFESSIONAL AND LIFE GOALS. I HOPE TO ENHANCE MY KNOWLEDGE AND SKILLS AT A FOUR-YEAR UNIVERSITY, BE AN ACTIVE MEMBER OF MY COMMUNITY AND CONTINUE TO BE PART OF A PROFESSIONAL ORGANIZATION.
CONTEMPORARY ART MUSEUM OF ROCKVILLE
MONTGOMERY COLLEGE
COURSE: PROFESSIONAL PRACTICUM
SPRING 2017
CCCAP STUDENT DESIGN COMPETITION 2017

DESIGN CONCEPT:
The Contemporary Art Museum located in Rockville, MD is based off the work of the most influential American sculptors of the 20th century, David Smith. Mainly influences by his Abstract Expressionism, which can be seen through his large abstract geometric sculptures. By bringing together large pieces of steel, he creates a tension by stacking them which gives the illusion that the pieces will fall since they’re extremely heavy but supported by light looking pieces as seen in his Cubi Collection. The building itself will be a sculpture that creates illusion both in gravity and eye perception. In one point of view, the museum structure tricks the visitors’ vision since at that point the museum looks as one whole building. But as you move toward the building, visitors will discover that there are three different buildings which are connected through heavy angled rectangular bridges. The main building materials are exposed pre-cast concrete, steel, and bright red and orange paint. The roofs are open-green sculpture exhibition areas to help the environment in Rockville as well as to provide a better experience to visitors.
DESIGN:

We used Archicad 20 in the creation of drawings. We went through every given document such as specifications to start the design and estimating process. We also researched required building and local codes in Ada County. The teamwork functionality of Archicad helped us work efficiently in the drawings. We incorporated the given floor plans as an underlay in Archicad. We then defined story heights and started with the assembly systems to generate quantities. We started to layout the roof trusses and moved our way down to the walls using advanced framing. This helped us maintain 24” on center that fit perfectly with the home’s dimensions. Lastly, we added finishes and started to develop building sections, elevations, and wall details to compose the set of drawings that meet building and local codes.
HOPE HOUSING IN HOMS, SYRIA
MONTGOMERY COLLEGE
COURSE: INTRODUCTION TO ARCHITECTURAL DESIGN
SPRING 2016
SYRIA: POST-WAR HOUSING COMPETITION

PROJECT:
AN INTERNATIONAL COMPETITION BY MATTER BETTER FOR ARCHITECTURE STUDENTS AND YOUNG ARCHITECTS TO RESEARCH NEW HOUSING CONCEPT FOR THE FUTURE OF THE POST-WAR SYRIA. PROPOSED A SOLUTION FOR HOUSING SCARCITY CRISIS, WHICH WILL AFFECT SYRIA AS MORE AND MORE CITIES OF THE WAR-TORN COUNTRY WILL BE FREED AND REFUGEES WILL START TO COME BACK. THE VITAL PART OF THE NEW HOUSING CONCEPT SHOULD BECOME A CREATION OF SUCH LIVING CONDITIONS WHICH WILL BE ATTRACTIVE FOR ONCE DISPLACED SYRIANS TO RETURN. PEOPLE, WHO SPENT YEARS IN TEMPORARY SHELTERS AND ADAPTED BUILDINGS, WILL LOOK FOR SOLID GROUND TO BEGIN A NEW LIFE. THE NEW HOUSING CONCEPT SHOULD BE ABLE TO PERMANENTLY ACCOMMODATE PEOPLE IN NEED OF A NEW HOME AND BECOME A NEW PAGE IN THE HISTORY OF SYRIA.

DESIGN APPROACH:
INTRODUCE NEW HOUSING CONCEPT FOR THE POST-WAR SYRIA, WHICH WILL IN SHORT-TERM PROVIDE QUALITATIVE SOLUTION FOR MASS SOCIAL HOUSING WITH AT LEAST 50+ YEARS LIFESPAN. THE HOPE HOUSING BUILDING PROVIDES A BETTER, SUSTAINABLE AND CULTURAL LIVING TO SYRIANS. THE BUILDING IS BROKEN DOWN INTO THREE APARTMENT UNITS: 2-BEDROOM (ONE STORY LAYOUT), 3-BEDROOM AND 4-BEDROOM (TWO STORY LAYOUT). IT ALSO CONTAINS RETAIL SPACE IN THE MAIN FLOOR FOR JOB AND GROWTH OPPORTUNITY WITHIN THE BUILDING. I MINIMIZED ENERGY CONSUMPTION BY INCORPORATING WINDOWS AND INTERIOR GARDENS AS WELL AS CONSERVE PRE-CAST SURFACES. ALL UNITS CONTAIN THE SAME OUTER DIMENSIONS AND UNITS ARE FLEXIBLE TO ACCOMMODATE TO DIFFERENT FLOORS. MAIN MATERIALS ARE PRE-CAST CONCRETE STRUCTURE, MASHRABIYA WALLS AS SCREENING FREE-STANDING PANELS IN THE MAIN CORE STAIRS AND AS BALCONIES’ WALLS, GABION WALLS WITH HANGING PLANTS TO DEPARATE BALCONIES FROM NEIGHBORS. COMMUNITY SPACES WAS A PRIORITY IN THIS PROJECT: INNER & OUTER COURTYARDS.

OUTER COURTYARD
INNER COURTYARD
MAIN LOBBY
SIPS HOUSE
MONTGOMERY COLLEGE
COURSE: INTRODUCTION TO ARCHITECTURAL DESIGN
SPRING 2016

PROJECT:
DESIGN A VACATION HOME FOR A RETIRED COUPLE. IT MUST BE WITHIN THE REQUIRED SETBACKS GIVEN IN THE PLANS AND REQUIRED CONSTRUCTION SYSTEMS.

DESIGN APPROACH:
I APPROACHED AN OPEN CONCEPT FLOOR PLAN FOR THIS PROJECT. THE VACATIONAL HOME IS STRUCTURALLY COMPOSED OF SIPS PANELS (FLOOR, WALL AND ROOF). IT IS ELEVATED 4' ABOVE GROUND BECAUSE OF THE SITE'S LANDSCAPE AND RIVER. IT'S A ONE BEDROOM AND ONE BATH HOME. IN THE PUBLIC AREAS, THERE ARE TALL WINDOWS AND CLEASTORY TO BRING LIGHT AS WELL AS A GOOD VIEW TO THE LAKE. FURTHERMORE, IT CONTAINS A WALK-AROUND BALCONY TO CAPTURE NATURE AND SUN BEAUTY. THE MAIN MATERIALS ARE SIPS PANELS, METAL FOUNDATION COLUMNS, SOLAR PANELS AND WINDOWS. ONCE FLOOR PLAN AND EXTERIOR ELEVATION DRAWINGS WERE DONE BY HAND, I PUT TOGETHER A WHITE MODEL THAT DEFINES THE SPACE IN AN SMALLER VERSION OF THE HOME. AS REQUIRED, I USED WHITE FOAM BOARD WITH WOOD. OVERALL, THE DESIGN FOCUSES IN CAPTURING NATURE AND PROVIDE A RELAXING GET-AWAY HOME.
APARTMENT FACADE

MONTGOMERY COLLEGE

COURSE: INTRODUCTION TO ARCHITECTURAL DESIGN

SPRING 2016

PROJECT:
DESIGN A THREE-STORY APARTMENT FACADE BY USING GEOMETRIC SHADOW PROJECTION WITH HEIGHT REQUIREMENTS AND SETBACKS. PROVIDE A WHITE MODEL WITH A 5 FEET PROJECTED WALL TO ILLUSTRATE FACADE AS WELL AS UTILIZE MATERIALS THAT WILL SHOW TEXTURE OF CONSTRUCTION MATERIALS.

DESIGN APPROACH:
I DESIGNED A BOXY CONTEMPORARY FACADE. THE MAIN FLOOR’S CMU COLUMNS SUPPORT THE TWO-STORY ABOVE. IT ALSO CONTAINS A THREE FEET PROJECTED WINDOW ON THE THIRD FLOOR AS A DECORATIVE FIXTURE. THE DESIGNED STARTED BY PUTTING TOGETHER IDEAS OF HOW TO ORGANIZE THE DESIGN AND WHAT I WANTED TO HAVE. ONCE THAT WAS DECIDED, I DRAW THE FACADE PLAN IN PENCIL. THEN I FINALIZED IT WITH PEN AND APPLY THE SHADOW AT A PROJECTED SUN PLACE OF 45 DEGREES. AFTER THE FACADE PLAN AND SHADOW WAS COMPLETED, THE WHITE MODEL WAS CREATED TO VISUALIZE THE DESIGN IN DEPTH. I UTILIZED FOAM BOARD AND MADE SMALL CUTS TO DEFINE TEXTURE OF CMU COLUMNS AND FIBER CEMENT PANELS FOR THE STORIES ABOVE. I ALSO INCORPORATED DOORS USING WOOD. WINDOWS ARE IN DIFFERENT SHAPES AND SIZES BUT HAVE A SQUARE/RECTANGULAR SHAPE IN COMMON AS A WAY TO REPRESENT CONTEMPORARY.
MODULAR DISASTER RELIEF HOUSING

MONTGOMERY COLLEGE
COURSE: 3D PRESENTATION
SPRING 2016

PROJECT:
Design a modular disaster relief housing that is easy to transport and able to be assembled by a small group of people in a short period of time. Choose a location that has extreme weather changes, design must protect family from the weather events. The housing must accommodate a family of four. Utilize Sketch Up as a tool for rendering scenes.

DESIGN APPROACH:
Using the fundamentals of Sketch Up software, I created a modular disaster relief housing that accommodates four members. The housing can be assembled at the site by a minimum of six people. The location is Tanauan, Leyte (Central Philippines) mainly weather event is flooding. The housing is composed of two separate unit blocks: living area and sleeping area. The assembly for both unit blocks are separate and are connected through a fabricated door opening. Because of flooding concerns, the housing is elevated above ground by using steel foundation. Main materials used are SIPS panels, steel foundation, solar panels, steel columns and beams, fiber cement panel (living area), exterior wood paneling (sleeping area) and standard seam metal roofing.

FLOOR PLAN
MATERIAL DETAIL
SOUTH-WEST VIEW
WEST ELEVATION
SOUTH ELEVATION
NORTH ELEVATION
EAST ELEVATION
DRAWING EMPHASIS ON THE ANALYSIS AND EXPLORATION OF BASIC DRAWING TECHNIQUES IN THE VISUAL INTERPRETATION OF NATURAL AND FABRICATED FORMS. IT’S A DEVELOPMENT OF OBSERVATIONAL SKILLS, THE USE OF FUNDAMENTAL GEOMETRIC VOLUMES AS BUILDING BLOCKS FOR MASTERING COMPLEX FORMS AS WELL AS EMPLOYS VALUE TO LIGHT, STRUCTURE VOLUME, WEIGHT, SPACE AND TEXTURE. PORTRAITS ARE DIFFICULT TO SUCCESSFULLY ACCOMPLISH IF THERE IS NO UNDERSTANDING OF TEXTURE, LINE WEIGHT, SHADOW TECHNIQUES AND PROPORTIONS. IT’S A SCULPTURE REPRESENTATION OF AN INDIVIDUAL IN WHICH THE FACE AND ITS EXPRESSION ARE DOMINANT OF THE COMPOSITION. THE INTENT IS TO DISPLAY THE PERSONALITY AND REALISTIC FEATURES OF A PERSON. ON MY SELF-PORTRAIT FROM A MIRROR, I WAS ABLE TO PERFORM GOOD IN PROPORTION BY DRAWING IDENTIFIABLE FEATURES AND LIFE-LIKE FEATURES. SHADING TECHNIQUE TO CREATE SOLID FORM AND BELIEVABLE TEXTURES. THIS WAS DONE IN A THREE-QUARTER POSITION FOR A BETTER COMPOSITION.
WITH PAINTING, I AM ABLE TO EXPLORE COLOR EMPHASIS ON TWO-DIMENSIONAL FORMS, A WIDE RANGE OF CONCEPTUAL APPROACHES AND MEDIA TO DEVELOP CRITICAL VISUAL THINKING AND THE CAPACITY TO ENGAGE IN CREATIVE PROBLEM SOLVING. MY INTEREST IS THE VISUAL EXPRESSION OF TEXTURE AND VISUAL CULTURE THAT A PAINTING’S CONTEXT EXPRESS ITSELF.
AWARDS

MONTGOMERY COLLEGE DEAN’S LIST
AN ACADEMIC ACHIEVEMENT AND RECOGNITION FOR STUDENTS THAT HAVE A 3.5 OR HIGHER GPA BY THE DEAN’S OFFICE.

SCHOLARSHIP THAT COVERS TUITION, MANDATORY FEES, BOOKS, AND SUPPLIES. AWARDED TO HIGH SCHOOL GRADUATES AND COLLEGE STUDENTS WHO WISHES TO CONTINUE STUDIES AT WASHINGTON, DC AREA COMMUNITY COLLEGES. IT IS BASED ON FINANCIAL AID AND ACADEMIC PERFORMANCE.

AAUW GAITHERSBURG SCHOLARSHIP: FALL 2015
SCHOLARSHIP THAT COVERS TUITION, FEES, BOOKS AND SUPPLIES TO WOMEN STUDENTS WORKING TOWARDS A DEGREE IN MATH, ENGINEERING, PHYSICAL SCIENCES AND ARCHITECTURE.

MC SPECIAL BOARD OF TRUSTEES SCHOLARSHIP: ACADEMIC YEARS 2014-2015
A SPECIAL SCHOLARSHIP OFFERED BY MONTGOMERY COLLEGE THAT COVERS TUITION AND FEES TO MC STUDENTS.

MONTGOMERY COUNTY EXECUTIVE HISPANIC GALA SCHOLARSHIP: SPRING 2014
SCHOLARSHIP OF $2,000 TO HIGH SCHOOL GRADUATES OR COLLEGE STUDENTS WHO ARE SEEKING A HIGHER EDUCATION AND THAT HAVE HISPANIC HERITAGE. SCHOLARSHIP COVERS TUITION, FEES, BOOKS AND SUPPLIES.

MC BOARD OF TRUSTEES SCHOLARSHIP: ACADEMIC YEARS 2013-2014 & 2012-2013
SCHOLARSHIP THAT COVERS FULL-TIME COST OF TUITION AND FEES. AWARDED TO HIGH SCHOOL GRADUATES WITH ACADEMIC ACHIEVEMENT AND POTENTIAL FOR MONTGOMERY COLLEGE.

RESEARCH EXPERIENCE

NAHB RESIDENTIAL CONSTRUCTION MANAGEMENT COMPETITION:
INTERNATIONAL BUILDER’S SHOW (OCTOBER - JANUARY 2017)
AS MONTGOMERY COLLEGE DESIGN/BUILD TEAM, WE PRESENTED OUR OAK PARK HOME PROPOSAL AT THE INTERNATIONAL BUILDER’S SHOW IN ORLANDO, FLORIDA THAT INCLUDED A FULL SET OF WORKING DRWINGS, A COMPLETE CONSTRUCTION SCHEDULE AND A DETAILED CONSTRUCTION ESTIMATE IN THE FOXTAIL ESTATES COMMUNITY LOCATED IN THE CITY OF EAGLE, IDAHO.

INDUSTRY EXPERIENCE

YBM CONSTRUCTION, INC. (SEPTEMBER 26TH, 2014 TO PRESENT)
WORK AS A PROJECT COORDINATOR TO OVERSEE CURRENT PROJECT’S SCHEDULE, PERMIT PROCESS, INSPECTIONS, SUBCONTRACTORS’ PAYMENT, AND UPDATE CLIENTS WITH CONSTRUCTION PROCESS. ALSO ASSIST THE DESIGN DEPARTMENT WITH PRODUCT SELECTION, SUBMITTALS AND DESIGN PROCESS.