

Contents

Chantal Manning

2014 Fall Term (1) Special Topics in Architecture
ARCH 4400 D668[82802] (NYC College of Technology): Final
Submission of Semester Work

Resiliency Group [maps + diagrams]

Steering Committee [agenda + meeting minutes]

Partnership Development
[instagram + facebook + emerging scholars + donations]

Fundraising [organizing the sponsor event]

80% Submission + ReSubmission [general pages, check all pages for notes
correction, check all pages for NCS standards adherence, Upload to Hightail]

Register students for Design Review in Irvine, CA

SGA budget proposal for \$4200 airfare

Club Pride - organized event + 3D selfie event

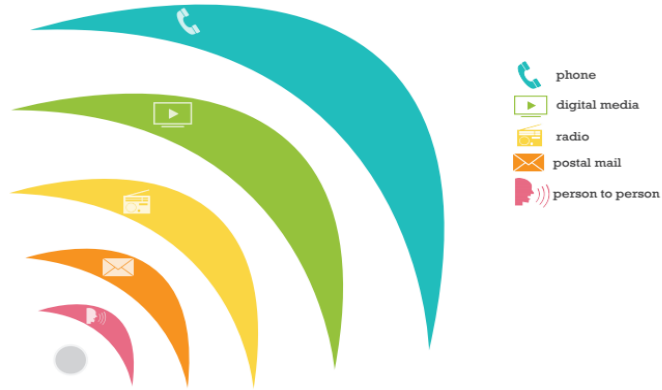
Thursday Presentations [regular participant]

LAYERS OF RESILIENCY | PASSIVE SURVIVABILITY

A building's ability to maintain critical life support when services and resources are lost.

Outermost layers and icons largest in scale denote a layer of resiliency that is a DURAHome's first layer of defense.

Layers decreasing in size represent steps towards sustainability and reliant strategies used as a last line of defense.

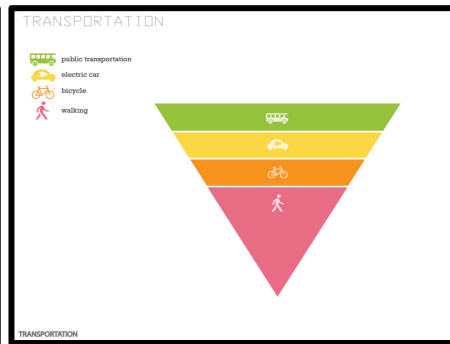
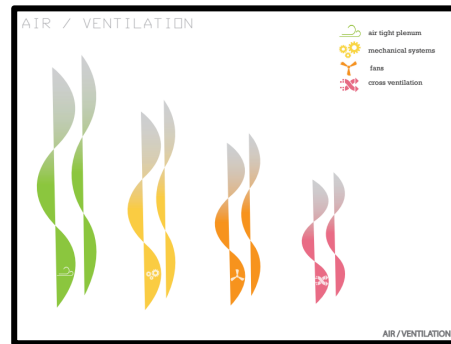
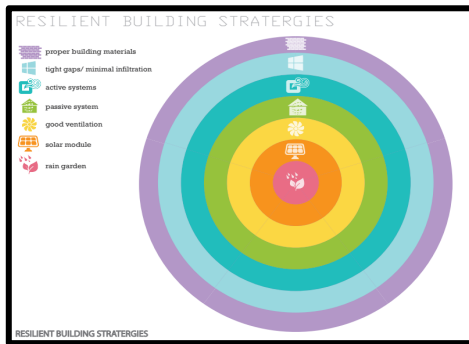
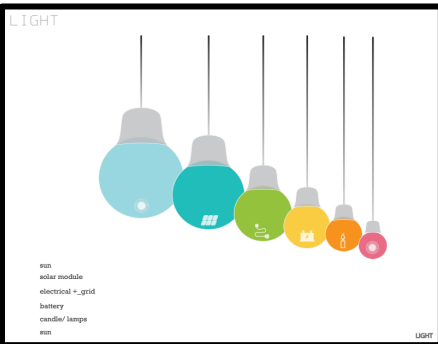
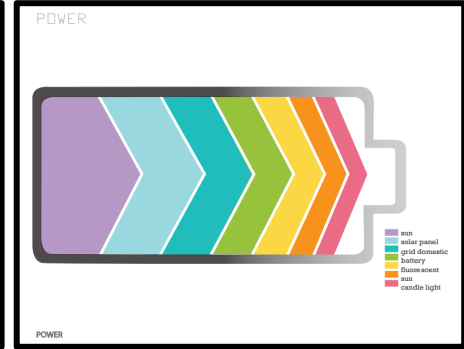
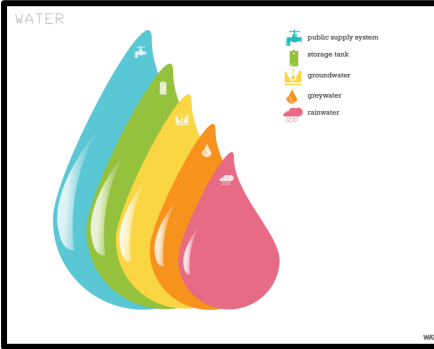


COMMUNICATION

COMMUNICATION

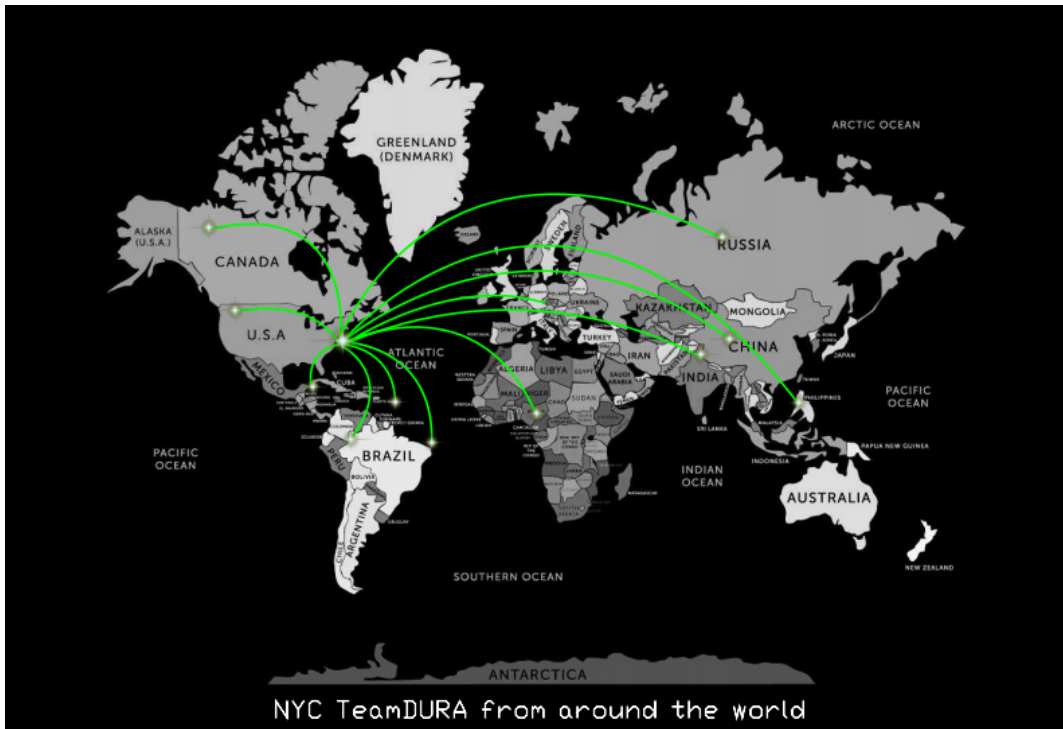
RESILIENCY GROUP

Created diagrams that explained Layers of Resilience as it pertained to the necessary resources a duraHOME would need for survival



DIVERSITY MAPS , DIAGRAMS + CHARTS

These diagrams, maps and charts show the diversity of teamDURA and New York City Tech students



DIVERSITY MAPS, DIAGRAMS + CHARTS

These diagrams, maps and charts show the diversity of teamDURA and New York City Tech students

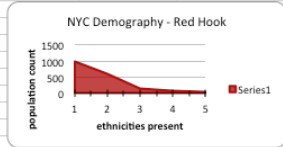
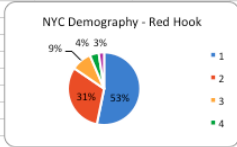
Counting New Yorkers + their languages
<http://www.npr.org/news/graphics/2009/jun/census-ny/>

Spanish	1832402
Chinese	323517
Russian	194696
French Creole	89085
Korean	77172



NYC Demography - Red Hook specific
<http://visual.ly/nyc-demography/view=tag>

White	1005
Hispanic	591
Black	171
Other	76
Asian	45



Energy Consumption
<http://visual.ly/energy-zip/view=trus>

NY11231: Northwest Brooklyn
 Energy per perso: 2269kwh
 Energy per household: 4971kwh
 % of income on electricity: 2%

Dean DURA origins

Nigeria	verandas / low pitched roofs / concrete 2 story / brick + mortar
China	
Ukraine	
Dominican Republic	stucco / cement
Russia	
Bangladesh	concrete / water tanks
Cuba	
Barbados	bright colors
United States	
Antigua = Barbuda	
Guyana	
Slovakia	
Mexico	light colors / flat roofs / concrete / clay
India	mosaic / engraving handcraft / ventilation
Switzerland	
Jamaica	concrete / vat
Cameroon	
Canada	
Puerto Rico	pilotis / cinder blocks
Peru	
Sweden	high pitched roof / ceramic tile / straw
Italy	
England	
Poland	
Ireland	thatched roof / ceramic tile
Vietnam	



Billie
 Mujun
 Agata
 Eregina
 December
 chantal
 December



Hadiza

A	B	C	D	E	F	G	H	I	J	K	L	
RACE + ETHNICITY of freshman students 2013-2014												
2	Hispanic	896	33.80%									
3	Black	737	31.50%									
4	Asian/Pacific Islander	497	20.00%									
5	White	223	11.13%									
6	Other	29	2.80%									
7	American Indian/ Native AI	13	0.60%									
8	TOTAL	2355	100.00%									
9	http://www.citnyc.cuny.edu/allen/about/facts.pdf											
10												
11												
12												
13												
14												
15	Student Residence											
16	Brooklyn		46.80%									
17	Queens		26.50%									
18	Bronx		10.90%									
19	Manhattan		9.10%									
20	Other NYC		2.60%									
21	Staten Island		2.30%									
22	International		1.30%									
23	Other USA		0.4									
24			100.00%									
25												
26												
27	Background											
28	62.3% report a language other than English spoken at home										62,30%	
29	42% born outside the US (138 countries represented)										37,00%	
30												
31												
32												
33	http://www.citnyc.cuny.edu/allen/about/facts.pdf											
34												
35												
36												
37												
38												
39												

RACE + ETHNICITY OF FRESHMAN STUDENTS 2013-2014

Hispanic	33.80%
Black	31.50%
Asian/Pacific Islander	20.00%
White	11.13%
Other	2.80%
American Indian/ Native AI	0.60%

NYCCT STUDENT ORIGINATE

Brooklyn	46.80%
Queens	26.50%
Bronx	10.90%
Manhattan	9.10%
Other NYC	2.60%
Staten Island	2.30%
International	1.30%
Other USA	0.4%

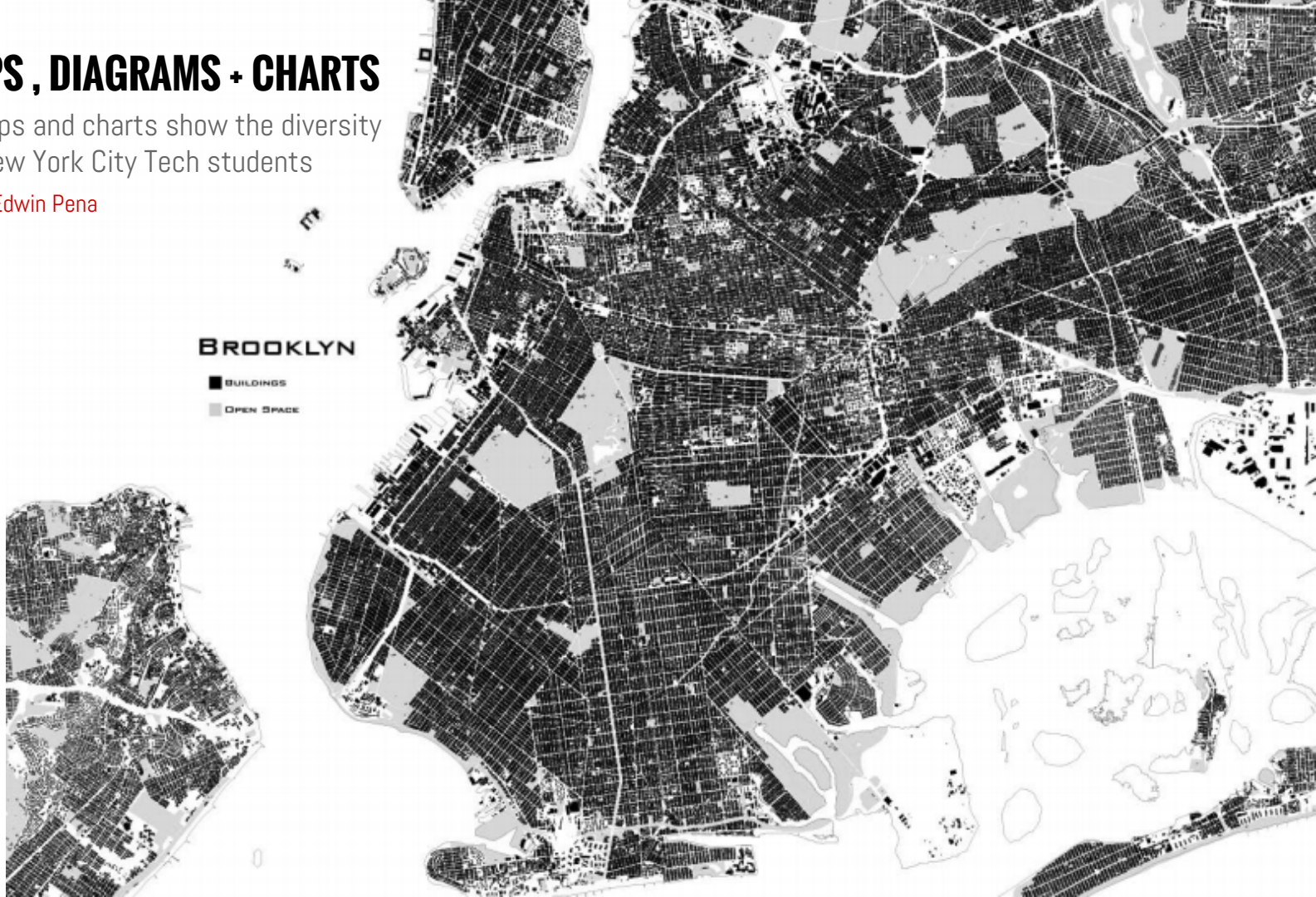
LANGUAGES OTHER THAN ENGLISH SPOKEN AT HOME

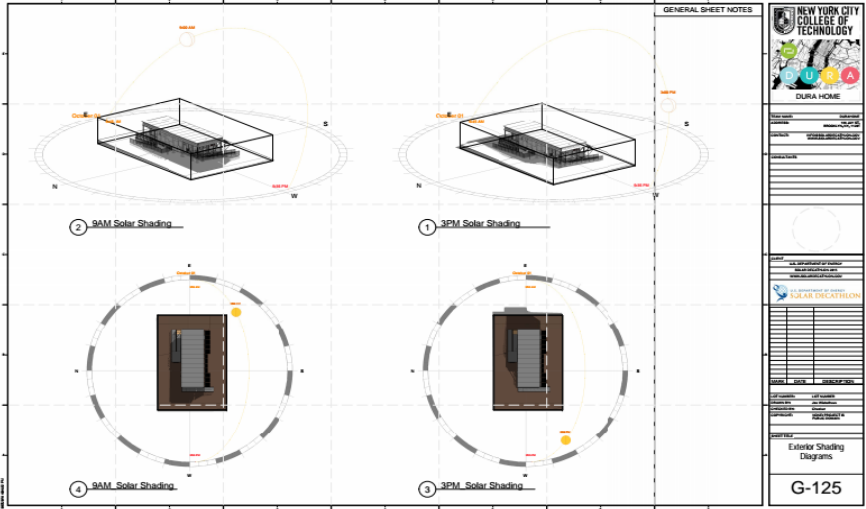
Other languages	62.30%
English	37.00%

DIVERSITY MAPS , DIAGRAMS + CHARTS

These diagrams, maps and charts show the diversity of teamDURA and New York City Tech students

collaborative effort with Edwin Pena





80% DESIGN DOCUMENT SUBMISSION

Created the opening GENERAL PAGES that were later taken out for the ReSubmission. [2] pages explaining the core concepts of a duraHOME, the TARGET MARKET, ENGINEERING NARRATIVE and MISSION STATEMENT

Created duraHOME solar shading diagrams

IN A CITY THRIVING AT AN EXPONENTIAL RATE, DURA REPRESENTS AN URBAN SOLUTION WITH STACKABILITY OPTIONS. HEIGHTENED LIVING DENSITIES AND CONSUMPTION RATES PROVIDES A DURAHOME THE CHALLENGE TO MEET THE EVOLVING PATH OF URBAN LIVING SUSTAINABLE INTO THE FUTURE.

DIVERSE
AS DIVERSE AS THE CITY OF NEW YORK, THE CHARACTER OF A DURAHOME IS DEVELOPED THROUGH ELEMENTS OF INTERNATIONAL LIVING, BUILDING PRINCIPLES WITH A STRONG CONNECTION TO THE NATURAL ENVIRONMENT, INTERIOR AND EXTERIOR AREAS WHICH REVEAL OPEN SPACE, ACCOMMODATE GREENERY AND ALLOW FOR FLEXIBILITY AND COMFORT.

URBAN

RESILIENT
OUR HOME'S PROXIMITY TO THE FLOOD PLAIN AND RISING SEA LEVELS INCREASES THE NEED FOR A PROACTIVE DESIGN RESILIENT TO FLOOD WATER, GAIL FORCE WINDS AND SEISMIC ACTIVITIES. DURA IS BUILT FOR OPTIMAL PERFORMANCE AND WORKS FOR THE CHANGING CLIMATE IN FAST GROWING, POPULATED CITIES.

ADAPTABLE
ADAPTABLE IS OUR HOME'S ABILITY TO CONVERSE WITH THE NATURAL ENVIRONMENT. A BIOPHILIC PHILOSOPHY TO DWELLING DESIGN MEANS THERE IS CONSIDERATION TOWARDS THE ONE ECOSYSTEM ALL SPECIES SHARE. THE HOME IS ADAPTIVELY DESIGNED WITH AN OPEN FLOOR PLAN TO ALLOW FOR A GREATER RANGE OF FLEXIBILITY FOR MULTIPLE CONFIGURATIONS.

THE ENGINEERING STRATEGY FOR DURA WILL BE BASED ON THE OVERALL EFFICIENCY AND USER-FRIENDLINESS OF THE TECHNOLOGY INCORPORATED INTO THE HOUSE. EMPHASIS WILL BE MADE ON HOW WELCOMED THE USER FEELS THROUGH THE USE OF ADVANCED AND INTEGRATED TECHNOLOGY. USING THESE INTEGRATED TECHNOLOGIES, THE USER WILL FEEL AS IF THEY ARE TRULY IN CONTROL OF THEIR HOME ENVIRONMENT.

ENGINEERING NARRATIVE

ONE OF THE MAIN POINTS OF OUR DESIGN IS A MECHANICAL SYSTEM THAT ALLOWS OUR PHOTOVOLTAIC (PV) PANELS TO TRACK THE SUN BOTH SEASONALLY AND DAILY TO ALLOW OPTIMAL PLACEMENT AND IN TURN OPTIMAL POWER OUTPUT. OUR ENGINEERING STRATEGY WILL CREATE A PLEASURABLE EXPERIENCE FOR BOTH THE RESIDENTS AND THE VISITORS TO LEARN HOW TO USE THE VARIOUS FUNCTIONS OF THE HOUSE.

MISSION

A DURAHOME OFFERS SOLUTIONS TO A NUMBER OF PROBLEMS FACING THE URBAN HOME OWNER OF THE 21ST CENTURY. A POSITIVE ENERGY HOUSE THAT IS DIVERSE, URBAN, RESILIENT, AND ADAPTABLE [DURA] IS THE EVIDENCE OF THE TEACHOURA RESEARCH INITIATIVE. CENTERED IN ONE OF THE MOST DIVERSE NEIGHBORHOODS IN NEW YORK CITY, A DURAHOME WILL SERVE A DIVERSE POPULACE WHILE IMPLEMENTING BUILDING PRINCIPLES EVIDENT IN REPRESENTED CULTURES SINCE ANTIQUITY. OUR DIVERSE AND URBAN ENVIRONMENT PROVIDES AN OPPORTUNITY FOR A SOLUTION THAT IS DISTINCT TO OUR LOCATION. RESILIENTLY ALLOWS A RESPONSE TO THE CHANGING CLIMATE AND NEEDS OF THE NEW YORK CITY WATERFRONT. ADAPTABILITY IS A PARADIGM FEATURE TO BE AS VIBRANT AS POSSIBLE AS IT TRAVELS THE COUNTRY. THE LANDSCAPE OF THE GROWING SUSTAINABLE INDUSTRY AND INTO OUR HEARTS SO ONE DAY BECOMES YOUR FUTURE HOME.

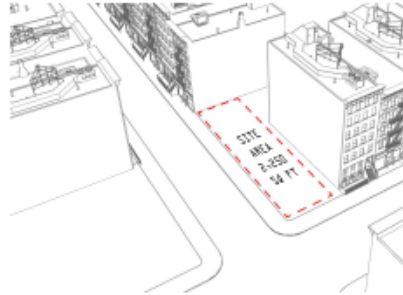
TARGET CLIENT

THE IDEAL INHABITANTS FOR A DURAHOME ARE A YOUNG CREATIVE COUPLE HAVING A LIFE IN A COASTAL URBAN METROPOLIS. THEY LIVE A FULL LIFE, OFTEN ENTERTAIN FRIENDS, AND AT TIMES WORK FROM HOME. THE FAMILY HAS GOALS TO ONE DAY EXPAND AND CHOOSE TO INVEST IN A DURAHOME BECAUSE OF THE ADAPTIVE FLEXIBILITY THAT PROVIDES FOR A GROWING ATMOSPHERE OF HEALTHY LIVING.

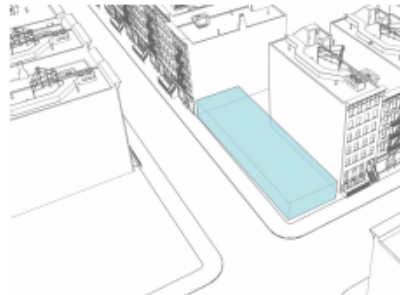
NARRATIVE DIAGRAM

This diagram discusses the narrative of the duraHOME land use progression

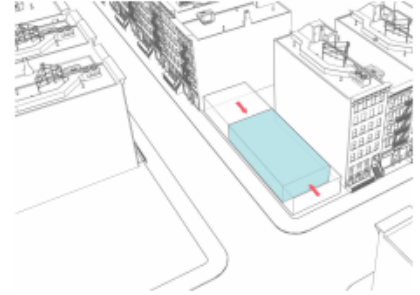
collaborative effort with Edwin Pena



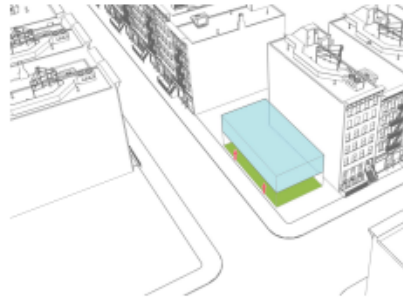
01_Site



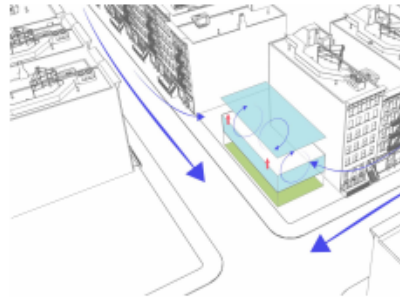
02_Allowable Build



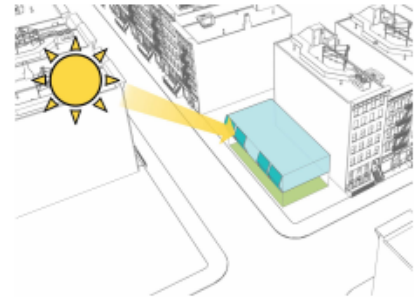
03_Setbacks



04_Proximity



05_Air Vent Lift



06_Energy Source

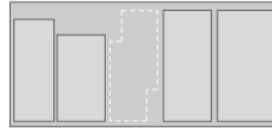
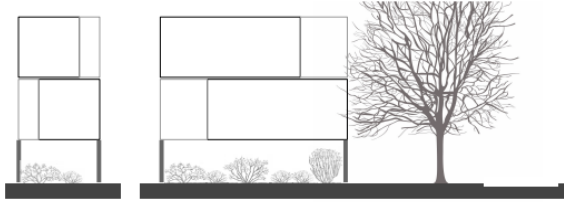


URBAN DIAGRAMS

These diagrams illustrate the diverse urban aspect to a duraHOME adaptable land use configurations.



duplex



mid block

dedicated vertical panels + [roof array] ? **75%**

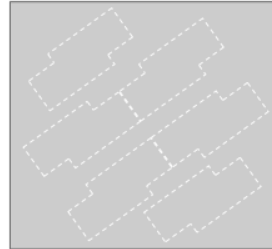
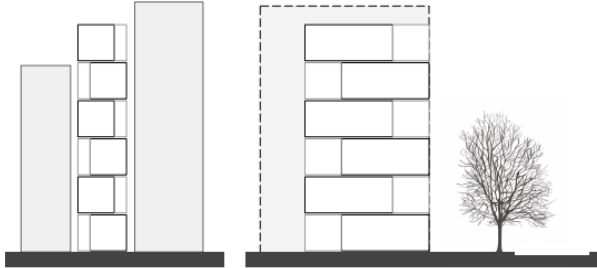


corner lot

ideal lot. South PV array **100%**



6 -plex tower

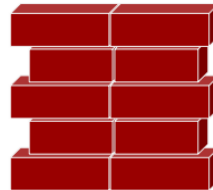


public housing

roof array + combined system **200%**



3/4 story walk up



public housing configuration



STEERING COMMITTEE MEETING MINUTES

Set agendas for scheduled meetings, was primary note taker for minutes. Typed and at times emailed all parties notes. Otherwise made available on GDrive.

DESCRIPTION OF MEETING

In Attendance

Chantal Manning
Alexander Aptekar
Agata Whyte
Vijay Tulsee

Note Taker
(primary) Chantal Manning
(secondary) NA

FRIDAY
12.05.2014

STEERING COMMITTEE

DESCRIPTION OF MEETING

In Attendance

MuJun Chen
Chantal Manning
Amanda Wall
Hadira Djibring
Alexander Aptekar
Shelly Smith
agata Whyte
Vijay Tulsee
Alisa Kazregina
Kemoy Henry
Stephen December

Note Taker
Chantal Manning (primary)
NA (secondary)

FRIDAY
11.21.2014

STEERING COMMITTEE

DESCRIPTION OF MEETING

In Attendance

Agata Whyte
Hadira Djibring
Vijay Tulsee
Alisa
Alexander Aptekar
Osmany Cabrera
Amanda Wall
Stephen December
Chantal Manning

Note Taker
Chantal Manning (primary)
Hadira Djibring (secondary)

FRIDAY
11.14.2014

STEERING COMMITTEE

DESCRIPTION OF MEETING

In Attendance

Agata Whyte
Stephen December
Alexander Aptekar
Osmany Cabrera
Barbara Mishara
Vijay Tulsee
Chantal Manning
Evgenia Gorovaya

Note Taker
Chantal Manning (primary)
NA (secondary)

FRIDAY
11.07.2014

STEERING COMMITTEE

DESCRIPTION OF MEETING

In Attendance

Osmany Cabrera
Jennifer Jiminez
Barbara Mishara
Amanda Wall
Alexander Aptekar
Margarita Salas
Hadira Djibring
MuJun Chen
Shelly Smith
Vijay Tulsee
Stephen December
Chantal Manning

Note Taker
Chantal Manning (primary)
MuJun Chen (secondary)

FRIDAY
10.31.2014

STEERING COMMITTEE

DESCRIPTION OF MEETING

In Attendance

Margarita Salas
Shelly Smith
Alexander Aptekar
Vijay Tulsee
MuJun Chen
Amanda Wall
Barbara Mishara
Evgenia Gorovaya
Stephen December
Hadira Djibring
Chantal Manning

Note Taker
Chantal Manning (primary)
MuJun Chen (secondary)

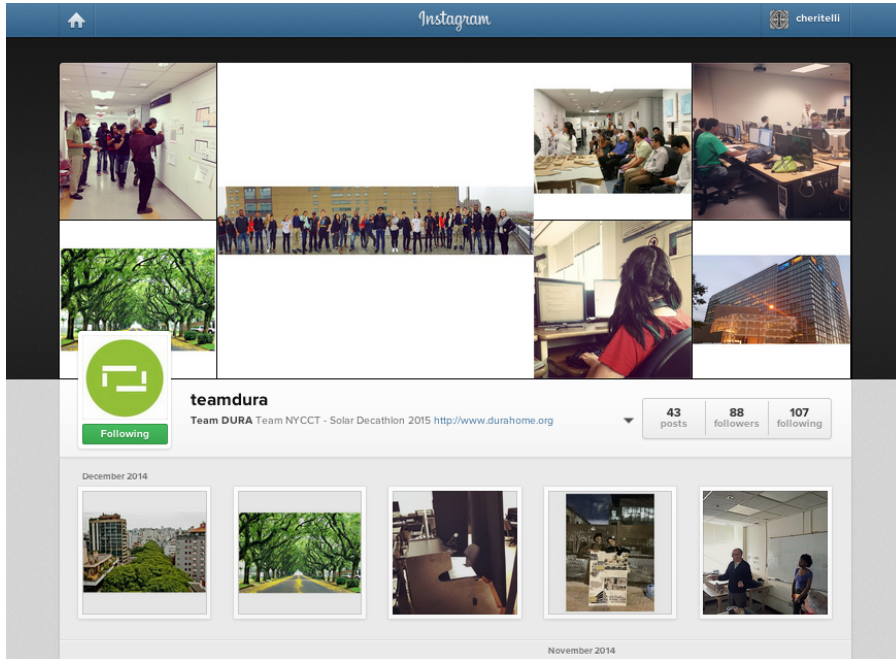
FRIDAY
10.24.2014

STEERING COMMITTEE

PARTNERSHIP DEVELOPMENT + COMMUNICATION

Update and manage the Instagram account for social media. In part with other team members update the facebook account with relevant material.

Solicited small, local business for small donations for fundraising event 12.11.2014



EMERGING SCHOLARS FALL 2014

Research most effective strategies for sponsorship development outreach with group members.
Put together research presentation board.

collaborative effort with MuJun, Hadiza, Alisa



Solar Decathlon, DURA Sponsorship Outreach

Student researcher(s): Chantal Manning, Alisa Kalegina, Hadiza Djibring, Mujun Chen
Faculty Mentor: Professor Alexander Aptekar
Department: Architectural Technology

ABSTRACT NYCCT's submission to the 2-year International Solar Decathlon Competition has been a great opportunity for all students to gain hands-on, practical knowledge pertaining to their field of choice. The sustainable housing market demands innovation. CityTech's entry of the DURAHOME strives to meet those requirements and go beyond. In order for the creative aspect to reach it's full potential, the machine of support of internal and external sponsors should run simultaneously and supplement design efforts. For the team, involvement from equally aligned local vendors creates an atmosphere of community involvement while garnering support from the public at large.

BROOKLYN BRIDGE \$100,000-	Brooklyn Bridge is a walk to the West 27th Street Planned program space Location: High rise building, color and street materials Site specific
MANHATTAN BRIDGE \$75,000 - \$95,000	Planned program space Planned space of 275,000 sq ft Large type of materials, color and street materials Site specific
WILLIAMSBURG BRIDGE \$50,000 - \$70,000	Planned program space Planned space of 275,000 sq ft Large type of materials, color and street materials Site of 275,000 sq ft for new residential street
VERRAZANO NARROWS BRIDGE \$25,000 - \$45,000	West Verrazano Narrows park at the suspension Planned program space and walk through access to the existing site at the Brooklyn Navy Yard Complete site on Verrazano Narrows
QUEENSBORO BRIDGE \$10,000 - \$20,000	Planned program space Location: 30th Street park
BROOKLYN BRIDGE \$5,000 - \$10,000	Planned program space Location: 30th Street park
GEORGE WASHINGTON BRIDGE \$1,000 - \$4,000	Planned program space Location: 30th Street park
THROGS NECK BRIDGE \$500 - \$900	Planned program space Location: 30th Street park
KOSCIUSKO BRIDGE \$500 - \$900	Planned program space Location: 30th Street park

Tiers of sponsor packages when businesses decide to donate.



RESPONSIVE WEB REDESIGN

In order to stay true to the ethos of Team DURA, namely the emphasis on Diversity and Adaptability, the latest iteration of the website has been rebuilt on a responsive Bootstrap framework. Responsive web design is a concept which emphasizes usability above all else, ensuring that a website is easy for the user to view and interact with. Overall, the main objective for the responsive redesign of DURAHOME.org is to increase usability and democratize access in order to stay true to the team's tenet: adapting to the needs of a diverse people.



SGA BUDGET PROPOSAL

Presented a proposal to the student government body asking for funds for student to travel to Irvine, CA for the Design Review in January 2015.

We were awarded \$4200

collaborative effort with MuJun, Hadiza, STA core members + external club cores

2014-2015 Student Government Club Budget Request Form

Submission Date 2014-10-08 14:42:50

By clicking I Accept, you confirm that you have read the budgetary guidelines and that you understand them and that you agree to be bound by them. I Accept

Name of Club Sustainable Technology Association

Name of Submitter Chantal Manning

E-mail SolarDecathlonNYCCT@Gmail.com

Objective of Event/Request The sustainable Technology association has been invited to take part in an educational event organized and sponsored by the Solar Decathlon, taking place in Irvine California. Since the school has been selected to participate in the project, the STA would like to take this opportunity to take the students in the school not participating in the solar decathlon and the core members of other clubs such as the Mechatronics club and the League of Black Architects so they may join in on the event while observing NY Citytech's progress in the Solar Decathlon.

Description of Event/Request The trip will be taking place in January from the 8th to the 11th. The organized trip will be one of STA's annual club trip but will also be opened for the students not part of the club because it will be a learning experience, also given that we are NYCCT students participating in the Solar Decathlon we are receiving a discount by the hotel for our entire stay. The students attending will be meeting on school grounds so we can have a head count before reaching the airport. The STA has invited members of the faculty to join us during the event, the faculty attending will be the club's primary advisor Prof. Alexander Aptekar and the Solar Decathlon project coordinator Amanda Wael. Upon arriving Irvine California, the students and faculty will be getting on cars rented for taking the students and faculty to the Hotel Irvine Jamboree Center and from the Hotel Irvine Jamboree Center to the event's location. After the Solar Decathlon event is over, the students and faculty will be gathered in the hotel lobby for a heads count before we go to the airport and return to New York City safely.

Advertising/Promotion We have been making announcement during our club meetings as well as attending other club's meeting to invite students. A sign up sheet was set up in the Voorhees building during this summer to collect interested individual's information. We have received an overwhelming amount of the requests to attend the event, but there is a very limited amount of Attendees given to NYCCT, so for this trip, we developed a win your chance visiting design development event. Which every student is giving a fair chance to be the winner, we have total of 12 spot for student. We decide to pick 1-2 most dedicated student from each department from school of Technology and Design. Which is in coordination

1

and partnership with many clubs in school of Technology and Design.

Name any clubs/organizations involved: ASCE, League of Black Architects, Architectural Club, Industrial Design, Mechatronics, The League of Black Engineers.

Have you fundraised for this event? If so, please state the full amount: 480

1. Item to Be Purchased Hotel Room

Cost Allocation/Vendor Options

	Vendor 1	Vendor 2	Vendor 3
Name of Vendor	Hotel Irvine Jamboree Center	Best Western Plus Orange County	Laguna Cliffs Marriott Resort
Price of Item	327.00	333.03	854.70
Number of Items to be Purchased	7 Double bedrooms	bedrooms	bedrooms
Total Price	2289.63	2331.21	5982.90

2. Item to Be Purchased Flight Ticket

Cost Allocation/Vendor Options

	Vendor 1	Vendor 2	Vendor 3
Name of Vendor	Student Universe	Jet Blue	us always
Price of Item	330.20	377.61	425.20
Number of Items to be Purchased	14	14	14
Total Price	4622.80	5286.54	5952.80

3. Item to Be Purchased Car Rental

Cost Allocation/Vendor Options

	Vendor 1	Vendor 2	Vendor 3
Name of Vendor	Interprice	Avis	Hertz
Price of Item	183.19	268.80	512.83
Number of Items to be Purchased	2	2	2
Total Price	366.38	537.60	1025.66

Cost Allocation/Vendor Options

	Vendor 1	Vendor 2	Vendor 3
Name of Vendor			
Price of Item			
Number of Items to be Purchased			
Total Price			

Other Information/Cost Allocation STA is planning to use fund-raised to cover food expense.

Total amount requested: 7278.81

2

CLUB PRIDE 3D SELFIE STATION

Organized the effort of teamDURA's participation in the Club Pride competition. Wore signs and invites students to join the activities.

collaborative effort with teamDURA



3D SELFIE

WE DESIGN AND WE BUILD

SUPPORT US AND WE'LL MANUFACTURE
A 3D REPLICA OF YOUR GORGEOUS SELF
...A 3D SELFIE!

- 3D FULLY TEXTURED DIGITAL MODEL AND ANIMATION SOCIAL NETWORK AVATARS
- 3D DIGITAL AND A 3D PRINTED MODEL
- 3D DIGITAL AND A 3D PRINTED NECKLACE



Team DURA Solar Decathlon

CONCLUSION

This concludes the recapitulation of work done during the FALL 2014 semester. This is in no way a complete assessment of all the work contributed but a brief summary of my efforts through the semester.

It was a pleasure working with you, I look forward to our continued progress for the Solar Decathlon 2015.

CHANTAL MANNING
DURA | PM | SD 2015