



*PPB*  
architect

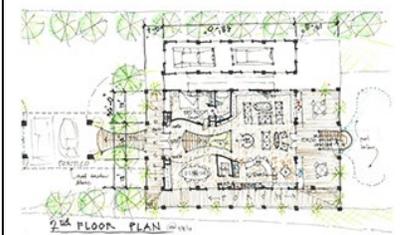
l a r r y r b a r r o w

PORTFOLIO

# PRACTICE

Design + Plans + Build

2018 – Present



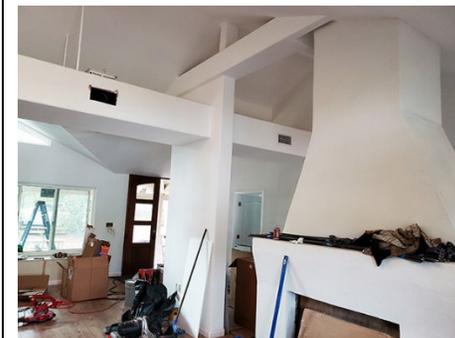
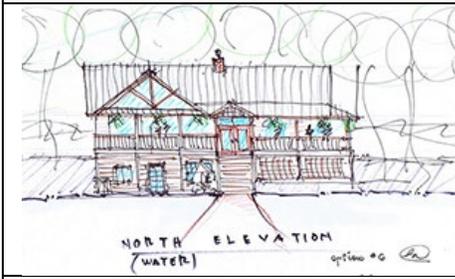
DESIGN – PLANS – CONSTRUCTION ADMINISTRATION

BUTTS HOUSE – ONO ISLAND – Orange Beach, AL (2019)

Steve & Connie Butts



BEFORE



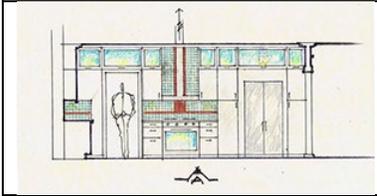
DESIGN – PLANS – CONSTRUCTION MANAGEMENT

CLARK LAKE HOUSE – Crestview, FL (2019)

Jim & Dianne Clark



BEFORE



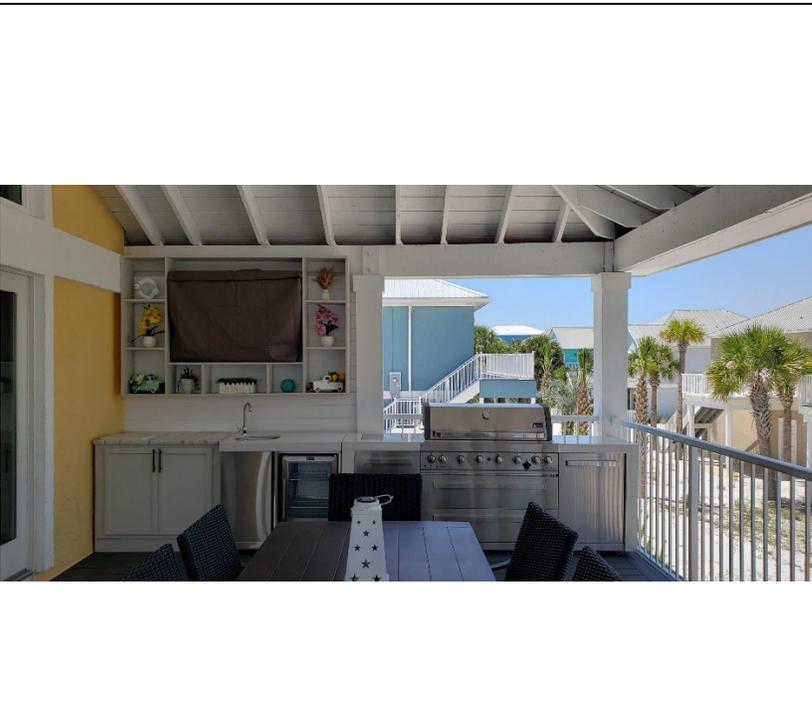
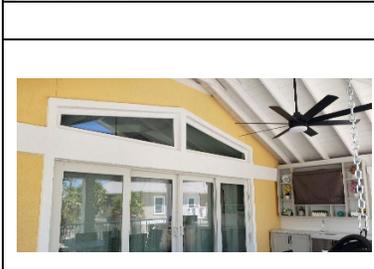
DESIGN – PLANS – CONSTRUCTION

BARROW HOUSE – Pensacola, FL (2020)

Larry & Mel Barrow



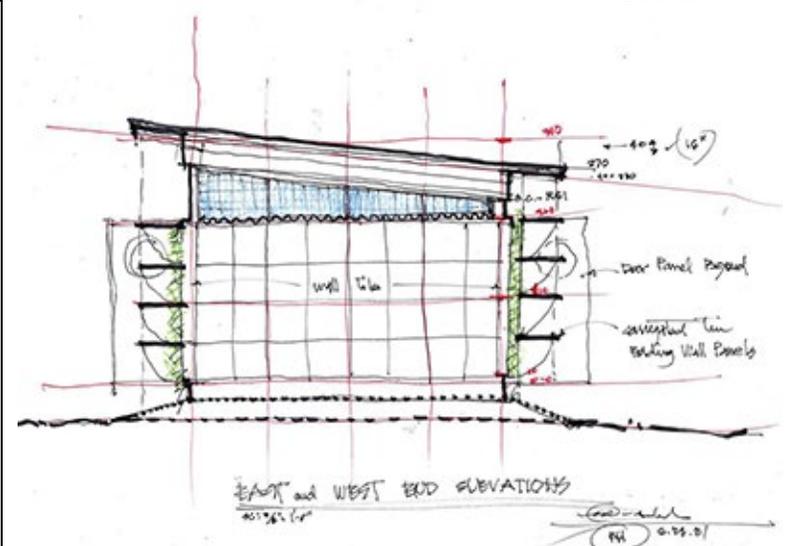
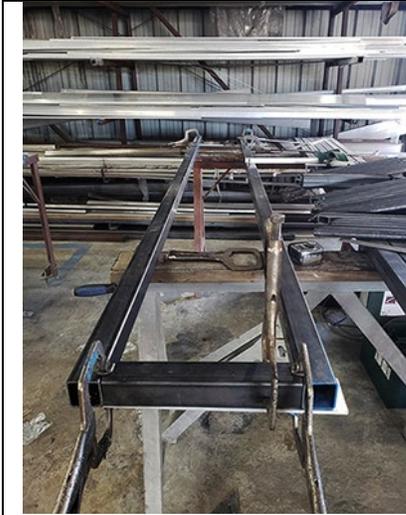
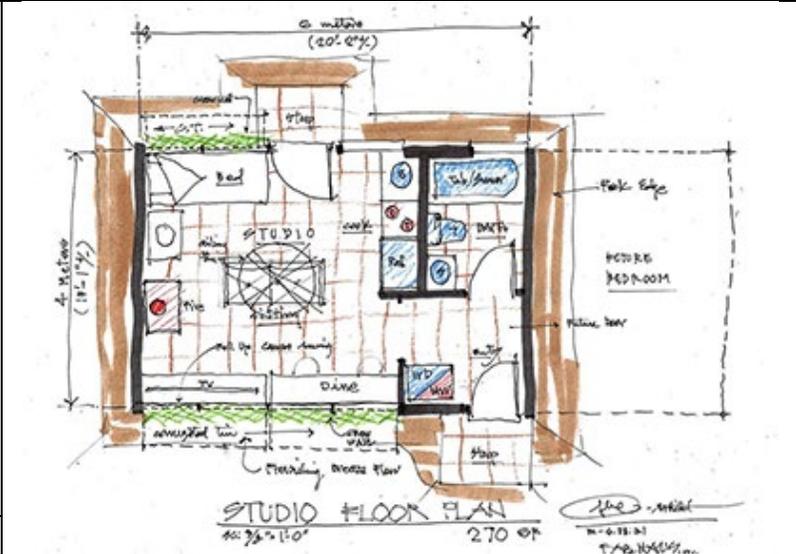
BEFORE



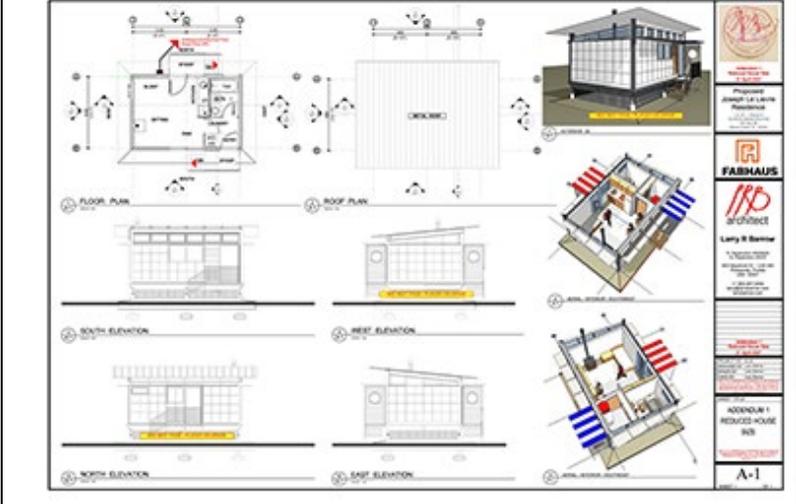
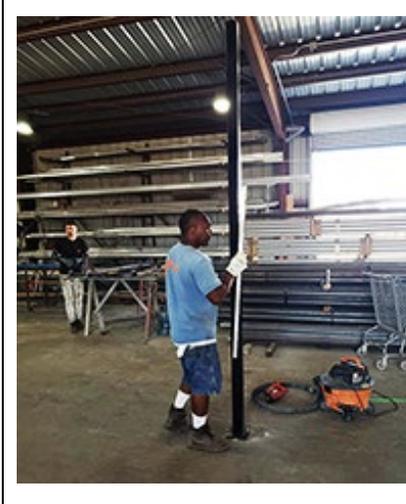
DESIGN – PLANS – CONSTRUCTION

JOHANSSON HOUSE – Navarre Beach, FL (2021)

Kennet Johansson



SHOP FAB



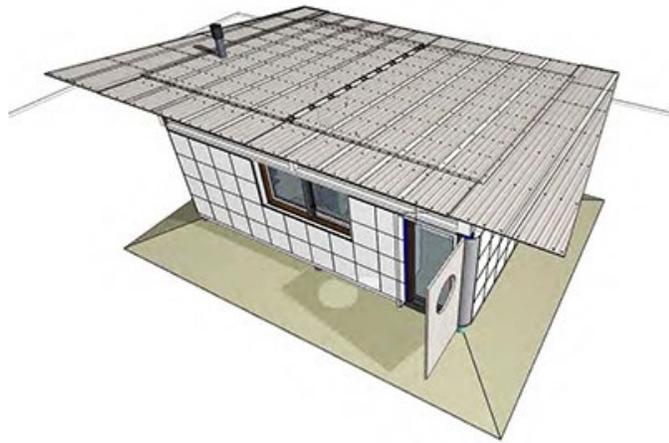
DESIGN – PLANS – CONSTRUCTION

LELIEVRE HOUSE – Defuniak Springs, FL (2023)

Joseph LeLievre



SITE FOUNDATION INSTALL



DESIGN – PLANS – CONSTRUCTION

LELIEVRE HOUSE – Defuniak Springs, FL (2023)

Joseph LeLievre



**FIELD ASSEMBLY**



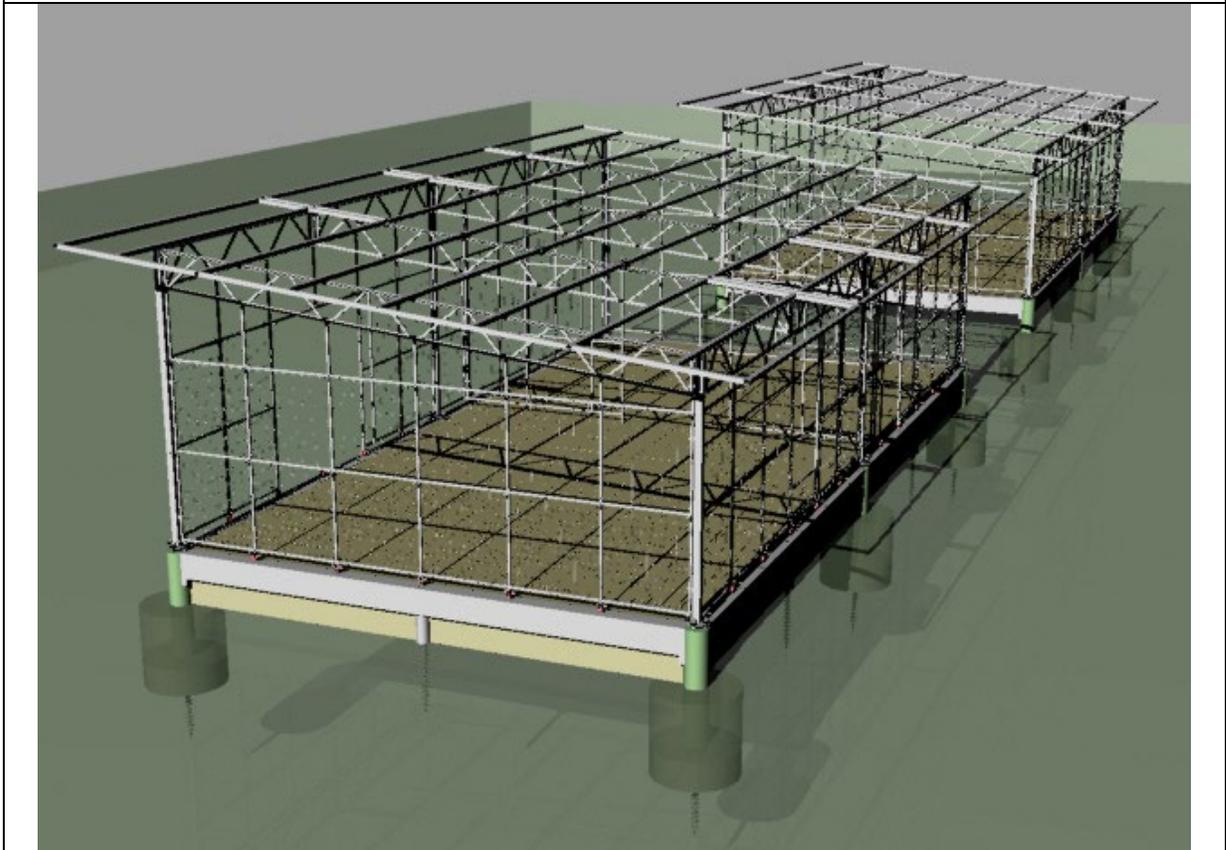
**DESIGN – PLANS – CONSTRUCTION**

**LELIEVRE HOUSE – Defuniak Springs, FL (2023)**

Joseph LeLievre







DESIGN – PLANS – BUILD (Pending)

VOYAGE REALITY – Pensacola, FL (2023)

John David Ellis

# P R A C T I C E

## Design

(Proposed Fabricate + Build)

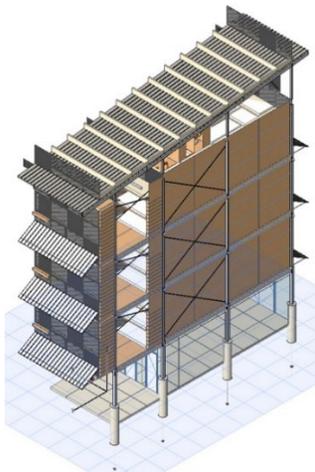
2010 - 2015



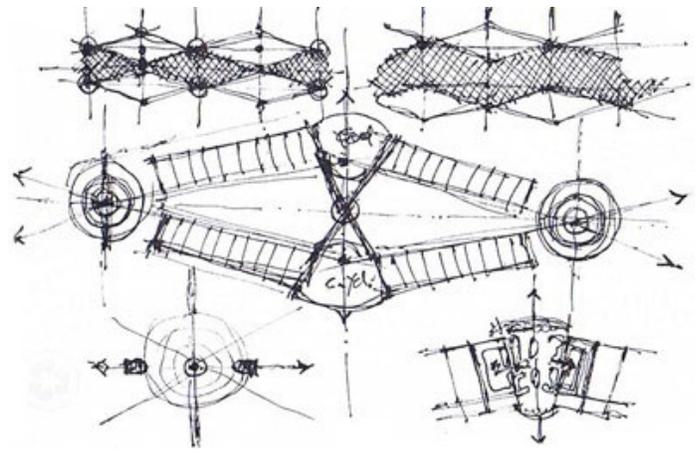
Domestic Waste – Constructed Wetlands



Local Earth – Modular Panels

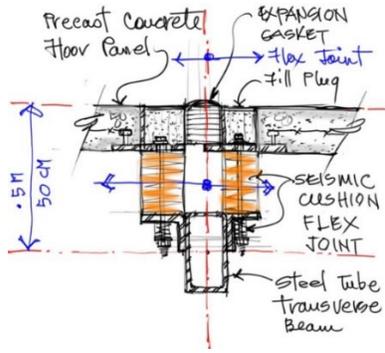


Typical Bay

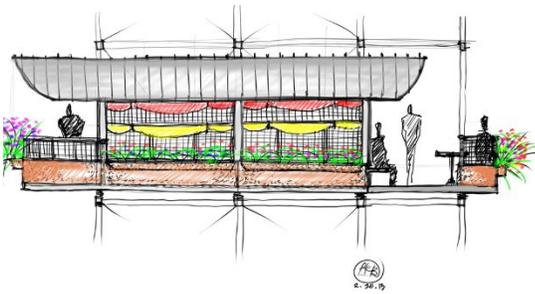


LRB Design Drawings + 3D Digital Model - Using ArchiCAD

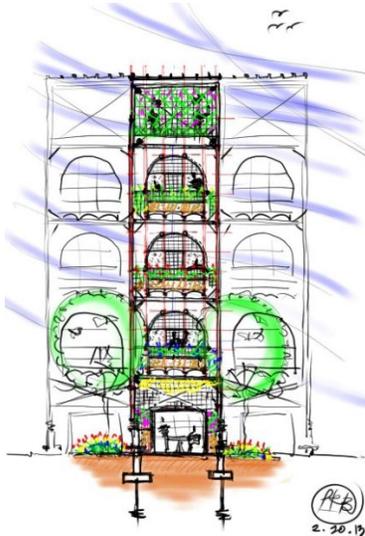
**ECO PODS Proposal – Africa / Abuja, Nigeria  
(Low-Income Affordable Housing - 2014)**



Modular Floor - Panel Detail



Side View



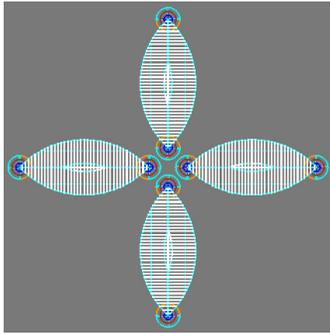
Typical Bay



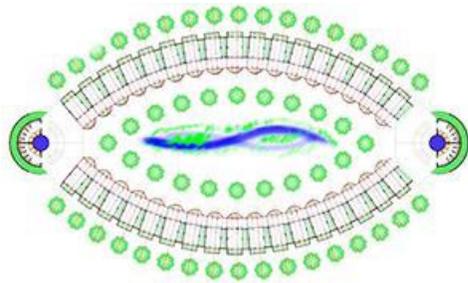
Typical Cross Section

LRB Design Drawings - Digital Freehand – Using AutoDesk Sketchbook Pro & PC Tablet

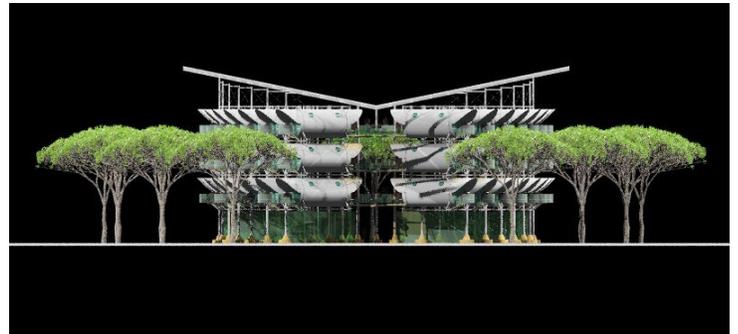
ECO PODS Proposal – Africa / Monrovia, Liberia  
(Low-Income Affordable Modular Housing - 2014)



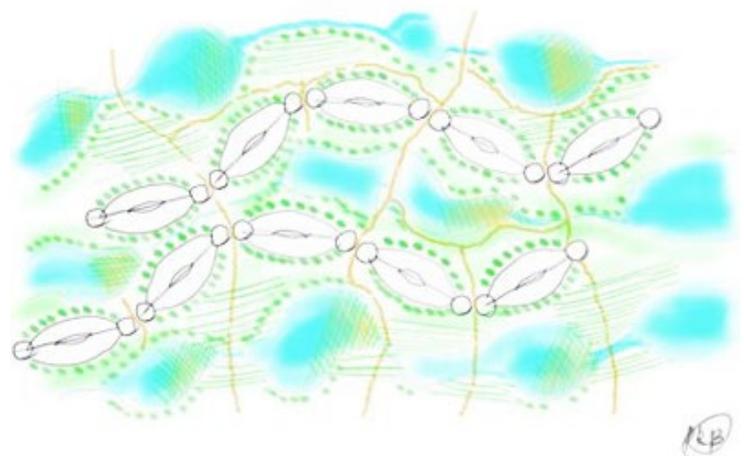
2D Output from 3D Model



3D Digital Model + Free-Hand Digital Draw



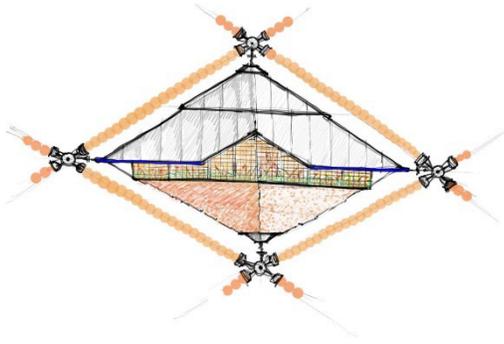
3D Digital Model – Master Plan Studies



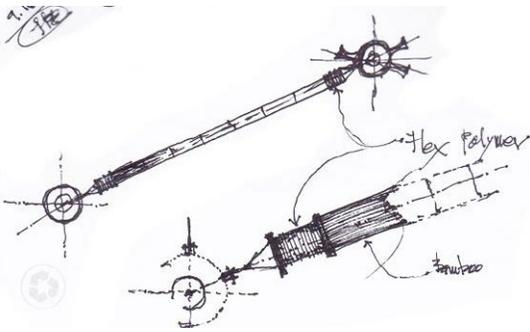
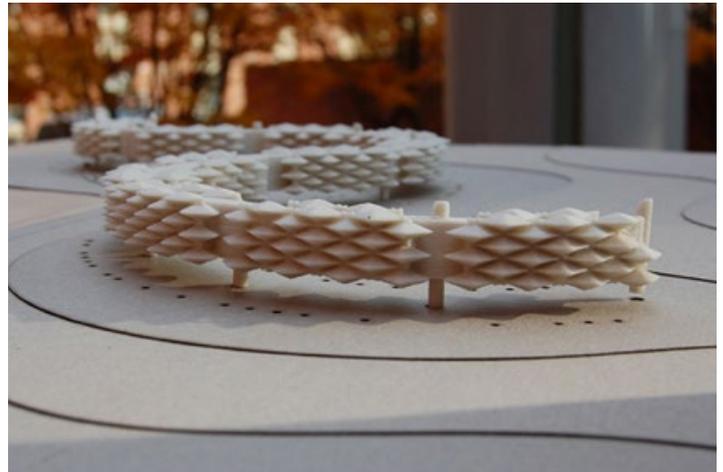
3D Rhino Digital Model + Freehand Digital Drawing

LRB Design Drawings – 2D Digital Freehand – AutoDesk Sketchbook Pro – 3D Rhino Model

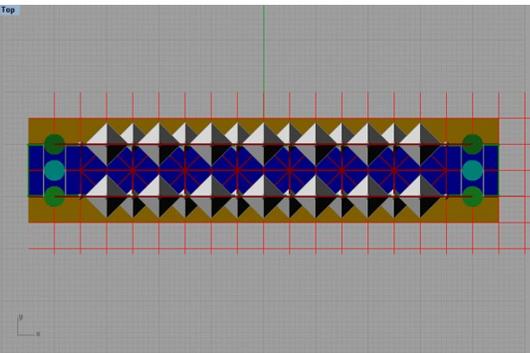
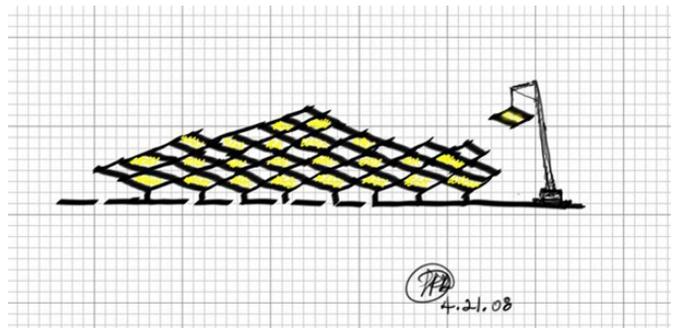
**ECO HAUS Proposal – Africa / Nigeria  
(Low-Income Affordable Housing – 2012)**



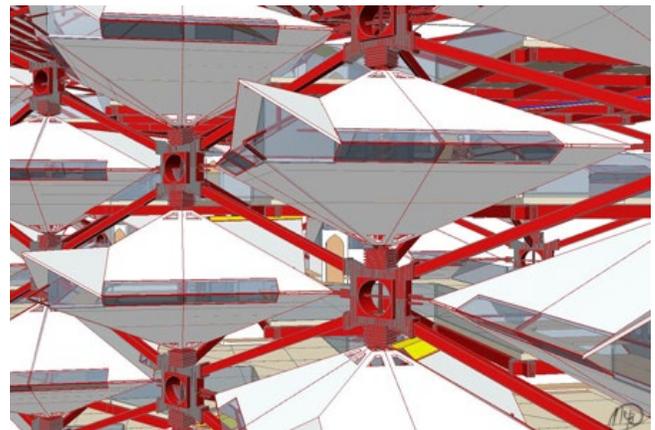
EcoHaus – Local Materials & Craft



Structural Frame Concept



3D Digital Model – Water Harvesting



3D Print Model + Freehand Digital Drawing + Digital ArchiCad Model

LRB Design Drawings - Digital Freehand – Using AutoDesk Sketchbook Pro & PC Tablet – 3D = Rhino + ArchiCAD  
**ECO HAUS Proposal – Africa / Kenya**  
 (Low-Income Affordable Housing – 2012)

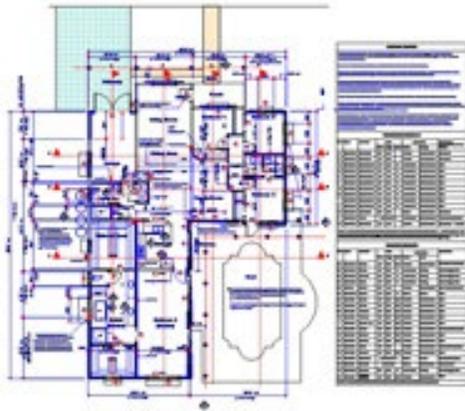
# PRACTICE

Design

2004 - 2015



2D Construction Documents from 3D Model



2D Construction Documents from 3D Model



3D Structural Frame Digital Model

Digital Design Process

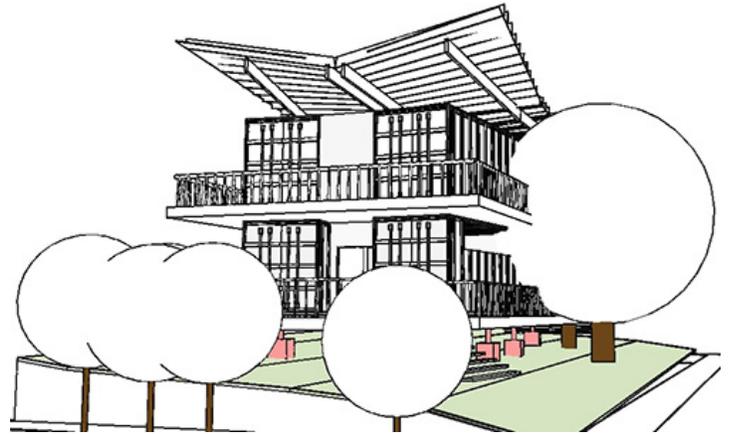
3D Digital Model + Freehand Digital Drawing

LRB Design Drawings - Digital Freehand – Using AutoDesk Sketchbook Pro & PC Tablet – 3D = ArchiCAD

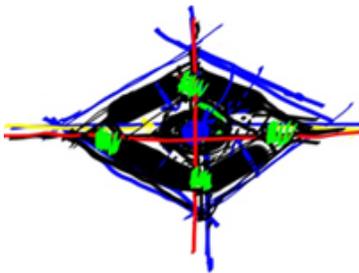
WARREN-MIZNER HISTORIC COTTAGE – Boca Raton, Florida – 2013



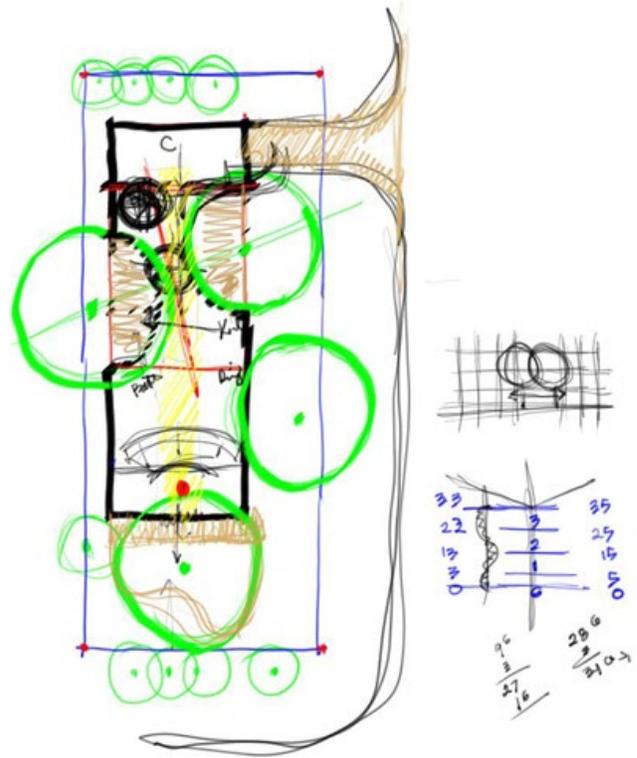
Container Fabrication



2D Digital Drawing



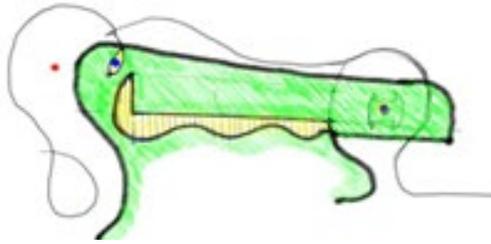
Concept Diagram – Digital Drawing



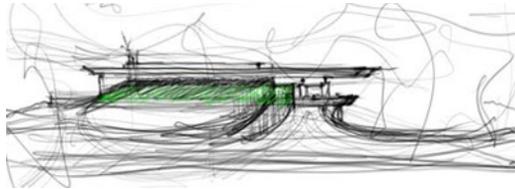
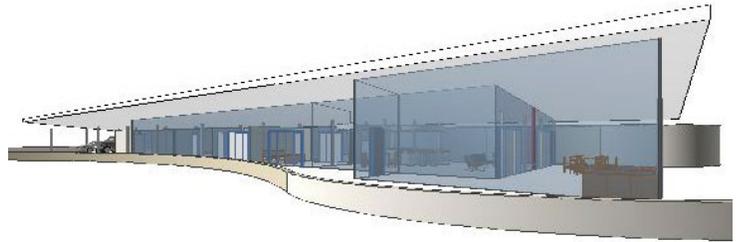
Digital Design Process - 2D + 3D

LRB Design Drawings - Digital Freehand – Using AutoDesk Sketchbook Pro & PC Tablet – 3D = Rhino

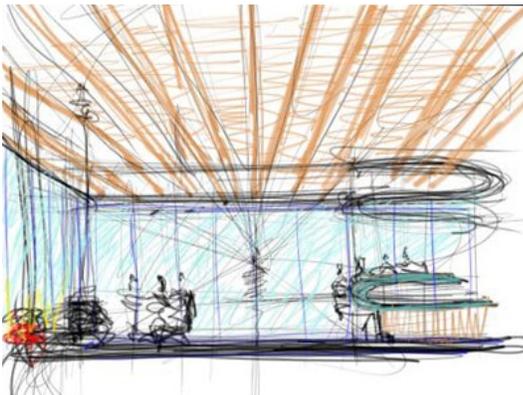
**RECYCLED CONTAINER HOUSE – Austin, Texas – 2006**



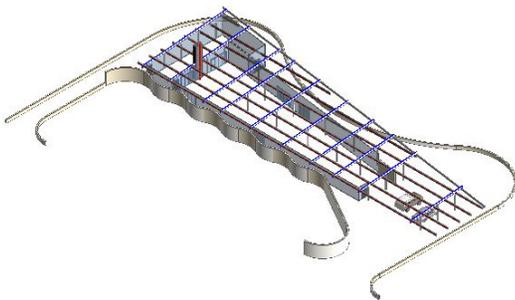
Conceptual Design-Digital Drawing



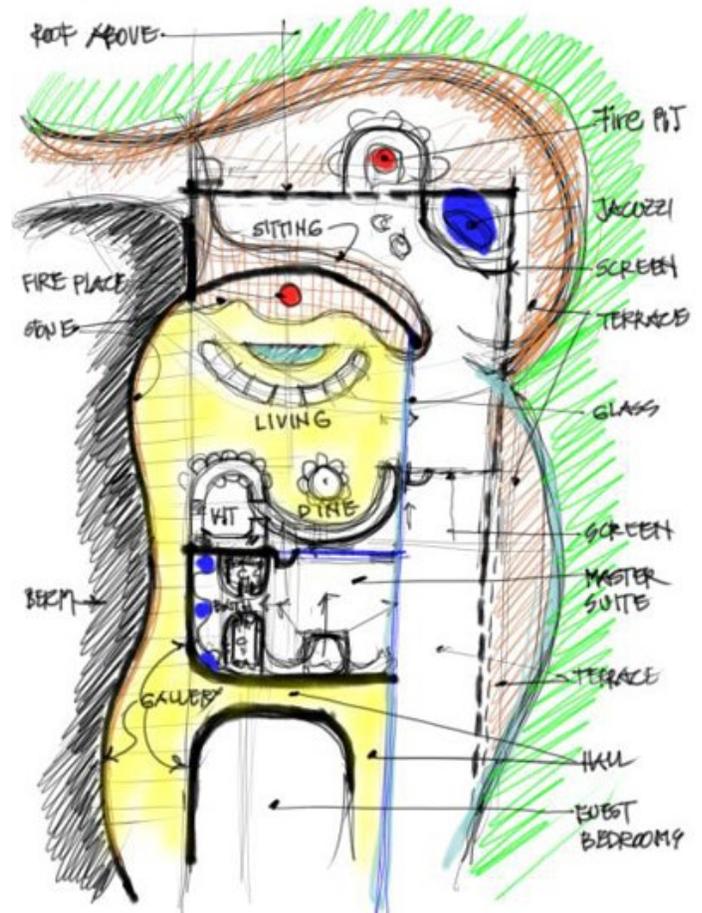
Schematic Design - Digital Drawing



Schematic Design - Digital Drawing



Design Development - 3D Digital Model



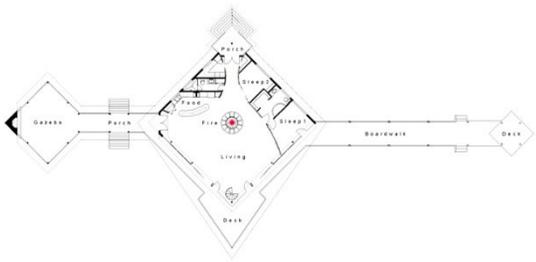
Floor Plan Schematic – Digital Drawing

LRB Design Drawings - Digital Freehand – Using AutoDesk Sketchbook Pro & PC Tablet – 3D = ArchiCAD

ECKENROD HOUSE – Kibler Valley, Virginia – 2010



Gazebo



Floor Plan



Site Plan

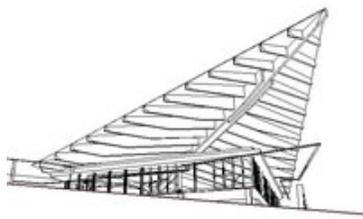
Photo Credit = F. Lee Carson

LRB Design Drawings - Digital Freehand – AutoDesk Sketchbook Pro & PC Tablet + 3D = ArchiCAD

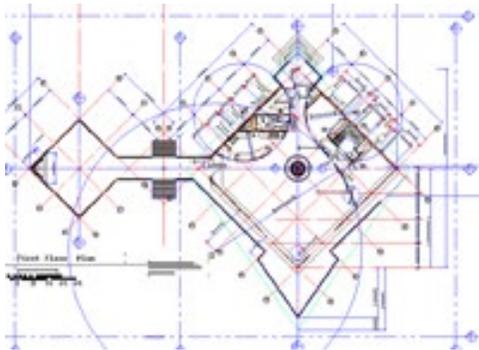
**FRANKLIN LAKE HOUSE – NE Mississippi – 2005**  
**AIA MS Design Award**



Schematic Design Drawing



3D Digital Model



2D Construction Documents from 3D Model



Photo Credit = Larry Barrow

LRB Design Drawings - Digital Freehand – AutoDesk Sketchbook Pro & PC Tablet + 3D = ArchiCAD

**FRANKLIN LAKE HOUSE – NE Mississippi – 2005**  
**AIA MS Design Award**

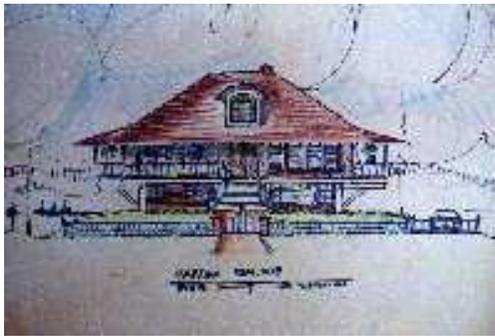
# PRACTICE

Design + Build

1986 - 1996



Wetlands View



LRB Schematic Design Drawing



LRB Interior Design



LRB Design Drawings – Analog

Design + Build

BARROW HOUSE – Bayside - A Waterfront Community - Avalon Beach, Florida – 1990



Model Credit = David Pinder



## Design + Build

JASPERSON HOUSE – Bayside - A Waterfront Community - Avalon Beach, Florida – 1988

# P R A C T I C E

Design + Develop + Build

1986 - 1996



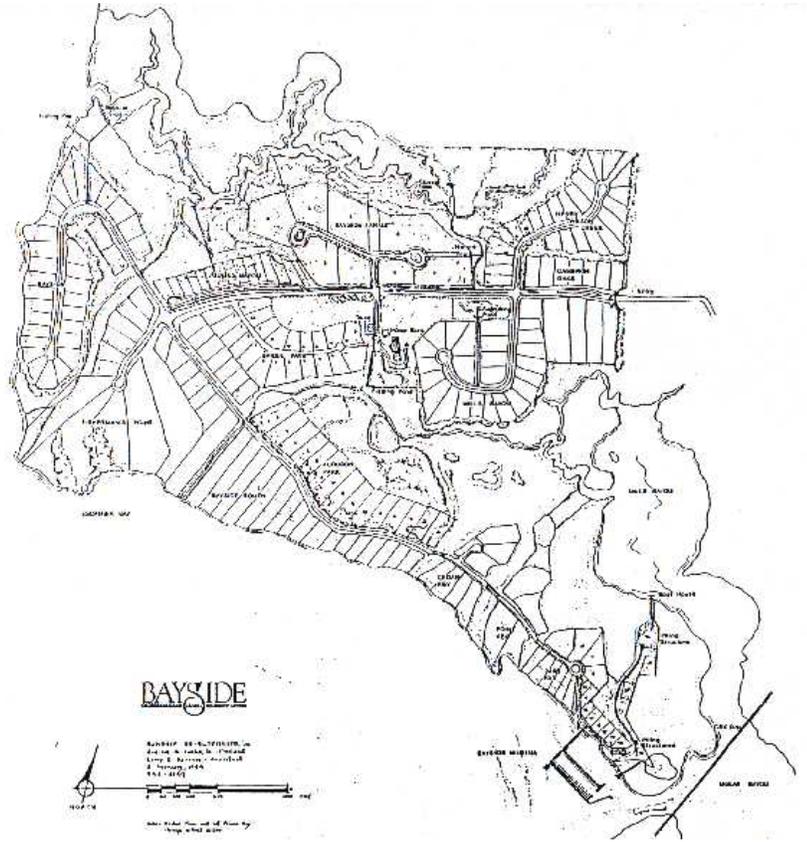
Community Entry Gate



Road / Utilities Construction (3 Miles)



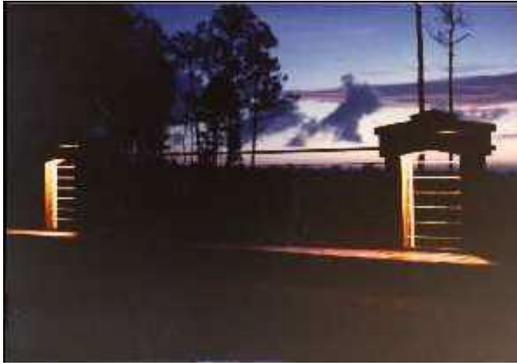
Equestrian Center



300 Acre Waterfront Community – Design & Development  
 Vice-President – Sonship Developments (1986 – 1996)  
 Master Planning / Permitting / Construction / Amenities / 17 Houses  
 (3 Miles Paved Streets and Underground Utilities)  
 (\$5M USD – Acquisition & Development)

Design + Develop + Build

**BAYSIDE – A WATERFRONT COMMUNITY (Budget = \$5M USD)**  
 Avalon Beach, Florida – 1986 – 1996



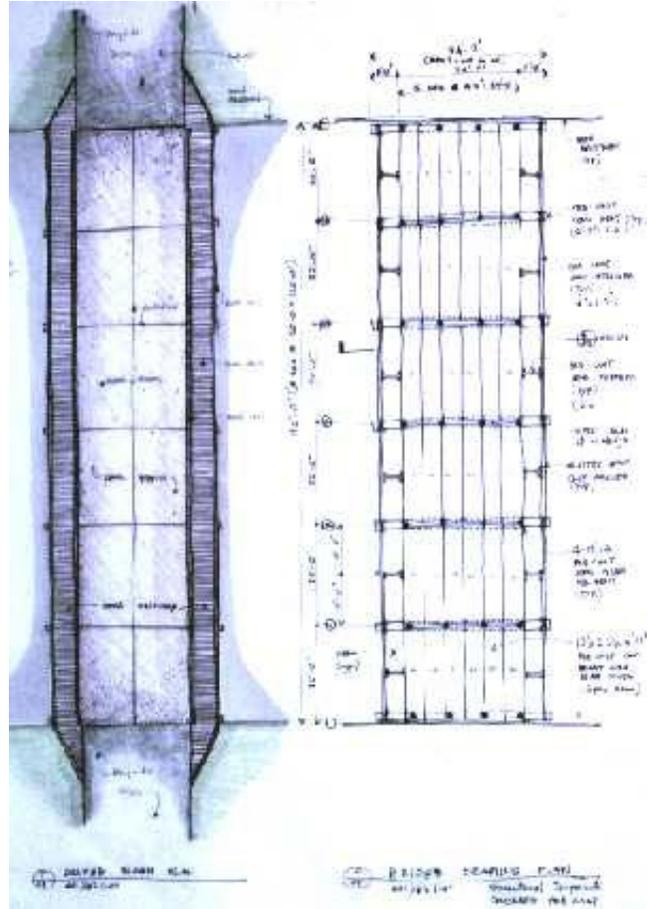
Lighted Bridge



Wetlands / Sawgrass Bridge



Bridge – Concrete Pilings Construction



300 Acre Waterfront Community  
 Vice-President – Director – Design & Construction  
 Sonship Developments (1986 – 1996)  
 Master Planning / Design / Construction  
 (3 Precast Concrete Bridges)  
 (\$300K USD – Construction Budget)

Design + Develop + Build

**BAYSIDE – A WATERFRONT COMMUNITY – FOUR (4) BRIDGES – (Budget = \$300K USD)**  
 Avalon Beach, Florida (1987 – 1994)

# P R A C T I C E

## Prior Firms

1981 - 1986

William E. Graves & Associates (now [STOA](#)) : LRB = Project Architect / Design Manager



Administrative Wing - Offices



Rendering



Model



Laboratory

**(LRB = Project Feasibility / Programming / Project Architect / Design Manager)**

STATE OF FLORIDA – DEPARTMENT OF ENVIRONMENTAL REGULATION LABORATORY - (1983-1985)  
Tallahassee, Florida - USA  
(Budget = \$15M USD)

Bullock Associates (now [Bullock Tice Associates, Inc](#)) : LRB = Project Designer / Architect



Picnic Shelters



Bath House



Master Plan - Wetlands

Bath House – Elevated Boardwalks

**(LRB = Project Designer - \*\*\* Florida Governor's Design Award - 1983)**

**STATE OF FLORIDA – DEPARTMENT OF NATURAL RESOURCES - (1981-1982)**

**Santa Rosa County, Florida - USA**

**(Budget = \$4M USD)**

Executive Architect - Reynolds. Smith & Hills (now [RS&H](#)) Jacksonville, FL  
Design Firm – [Edward Durrell Stone](#) – New York  
LRB = Architectural / Structural Draftsman



Historic Capitol + New Wings + New Tower



Historic Capitol + New Tower



Tower + Legislative Wings

STATE OF FLORIDA – CAPITOL BUILDING (1973 - 1974)

Tallahassee, Florida - USA

(LRB = Architectural/Structural Draftsman = All Elevator Core Drawings: Foundation thru Roof Penthouse)

(Budget = \$75M USD)

# R E S E A R C H

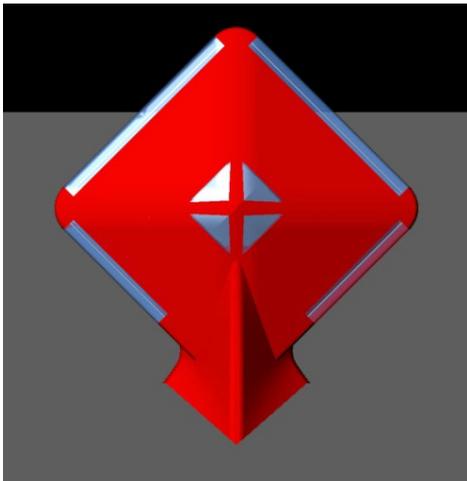
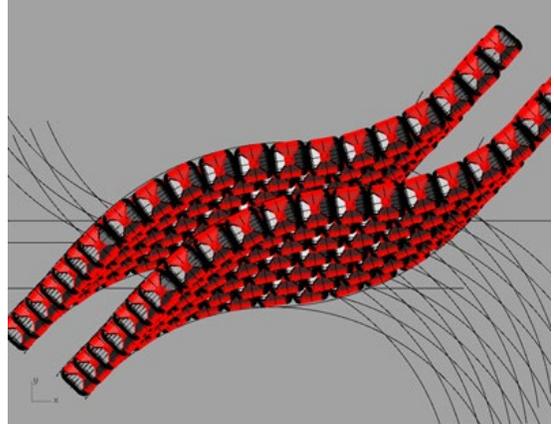
## Fabricated Modular Housing

(Materials & Methods)

2005 - 2009



Z-Corp 3D Printed Model



Rhino 3D Model



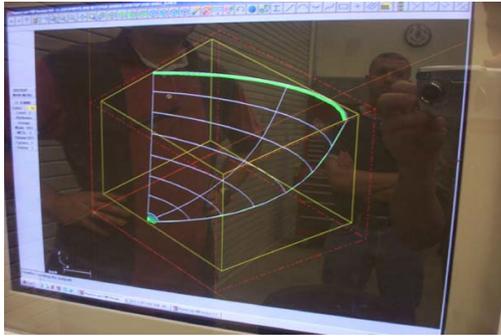
LRB Design Drawings – Analog Freehand in Sketchbook

Rhino 3D Model: Graduate Assistants = Ritisha Harizucha, Sweta Kahlina, Kusa Olutosin

3D Printed Model: Graduate Assistant = Justin Taylor

PI – Larry Barrow

**Modular Housing System (2007)**  
Design Research & Informatics Lab  
Mississippi State University



3D Model Import – CNC Router



CNC Milling Machine – MDF Board Mold



CNC Milling Machine – MDF Board Mold



Mold + Fiberglass Lightweight Panel

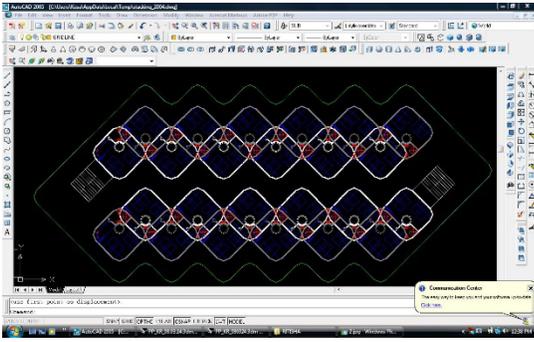
Rhino 3D Model: Graduate Assistants = Guchong Wang, Ritisha Harizucha, Sweta Kahlina, Kusa Olutosin

3D Printed Model: Graduate Assistant = Justin Taylor

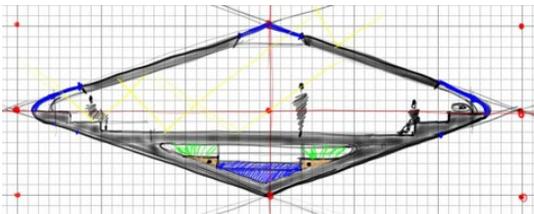
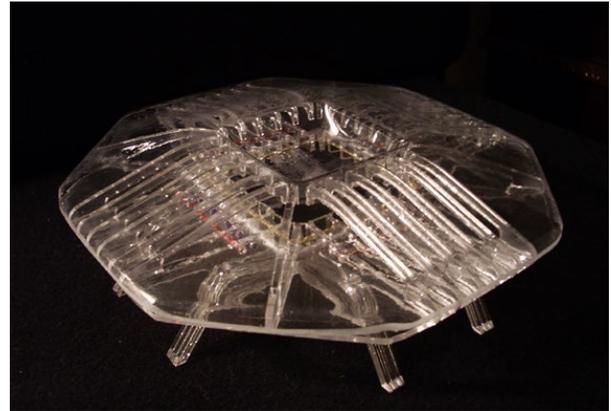
MDF Board Mold = Rob Mahurin

Co-PI – Larry Barrow / David Lawrence – Director – Raspet Aerospace Lab

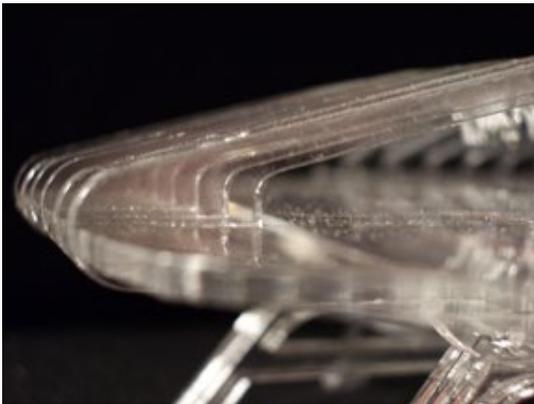
**Modular Fiberglass Panel Research (2004 - 2009)**  
Design Research & Informatics Lab in Collaboration with [Raspet Aerospace Lab](#)  
Mississippi State University



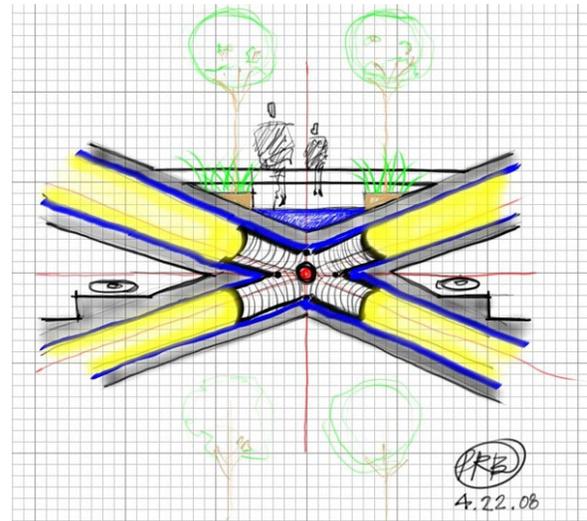
Rhino 2D Digital Drawing



Freehand Concept - 2D Digital Draw (LRB)



3D Model – Laser Cut Rapid Prototype



Eco-Cell Concept Drawing (LRB)

Rhino 3D Model: Graduate Assistants = Ritisha Harizucha, Sweta Kahlina, Kusa Olutosin  
 Laser Cut Model: Graduate Assistant = Justin Taylor  
 PI – Larry Barrow

**PERFORMANCE PODS – Global Housing System - 2008**  
**Design Research & Informatics Lab**  
**Mississippi State University**



Laser Cutter – Universal



CNC Router – TechNo Easel



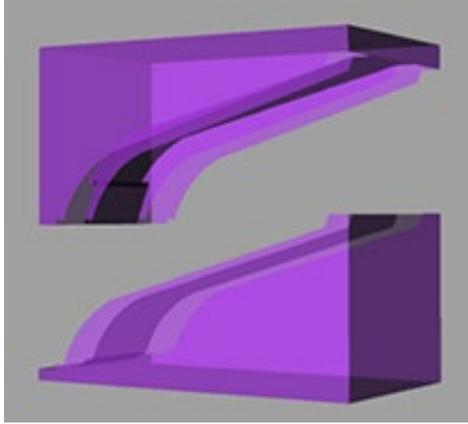
3D Printer – Z-Corp



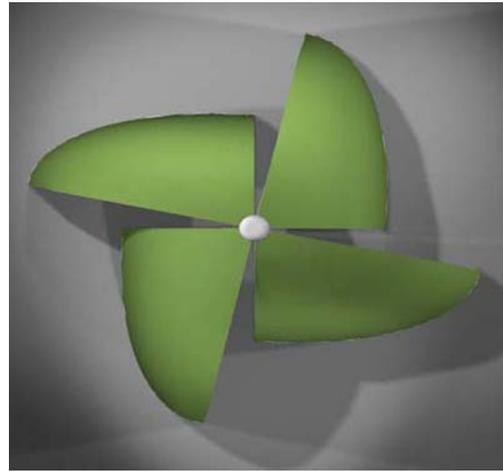
Heat Vacuum Press

**CADCAM / Rapid Prototyping Equipment**

**Design Research & Informatics Lab  
Mississippi State University  
Larry Barrow – Director (2001 – 2009)**



3D Rhino Mold Model



Hot Wire Cutter - Mold Model



LRB - Grad Students / Raspet Partners

3D FormZ Model - 3D ABS Plastics Printed Model

Graduate Assistants = Rob Mahurin, Kusa Olutosin

**TEMPORARY DISASTER RELIEF SHELTER (2004 - 2005)**  
Design Research & Informatics Lab  
Mississippi State University

# TEACHING

Foundations → Post-Professional

2001 – 2015

STUDENT WORK – Ball State University – Fall Semester 2013



Student - Alayna Davidson



Student - Megan Stefennagel

CAP 101 - Design Communications Media (1st year – first semester)



Student – Sean Costello



Student – Alex Minor

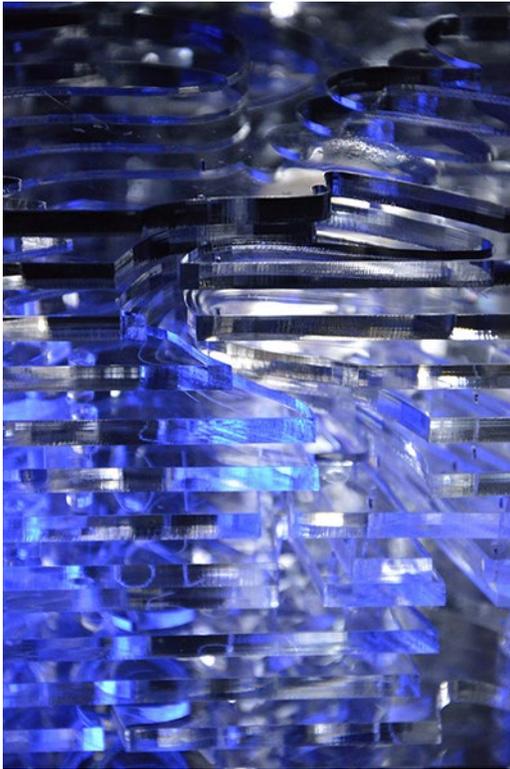
ARCH 201 – Design Studio (2<sup>nd</sup> year – first semester)

Visiting Faculty

F13 / Present

Ball State University – Muncie, Indiana / USA

STUDENT WORK – Ball State University – Fall Semester 2015



Students  
Mason Olson, Nikki Klein, John Hopkins, Payne Wagner



Students  
Landon Underwood, Daniel Valesco, Josh Cannaday



Student  
Scotty Manners

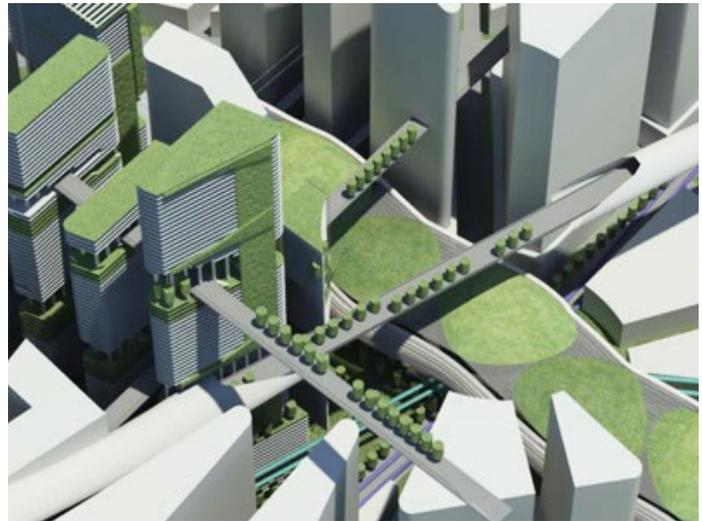


Students  
Landon Underwood, Daniel Valesco, Josh Cannaday

ARCH 263 – Digital Design (2<sup>nd</sup> year – first semester)

Visiting Faculty  
F13 / Present  
Ball State University – Muncie, Indiana / USA

**STUDENT WORK – Florida Atlantic University – Design 10 Studio – Spring Semester 2011**  
Collaborative Design TEAM: Patrick Kondziola, Valentina Stamatovska, Byron Wilson, Michael Goodwin



**Visiting Lecturer / Associate Professor**

Florida Atlantic University – Fort Lauderdale, Florida / USA

Invited to teach Building Information Modeling (BIM) classes and fifth year capstone studio. Co-taught under the directorship of [Dr. Ken Yeang](#) - of [T. R. Hamzuh & Yeang Sdn. Bhd.](#) (London & Malaysia), focused on sustainable “green” eco-city planning and urban design.

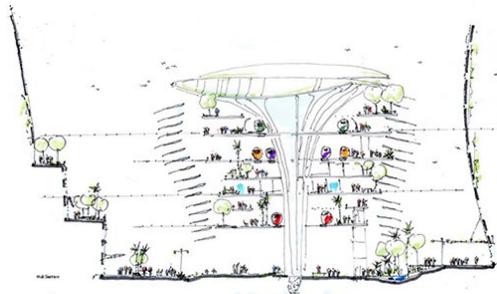
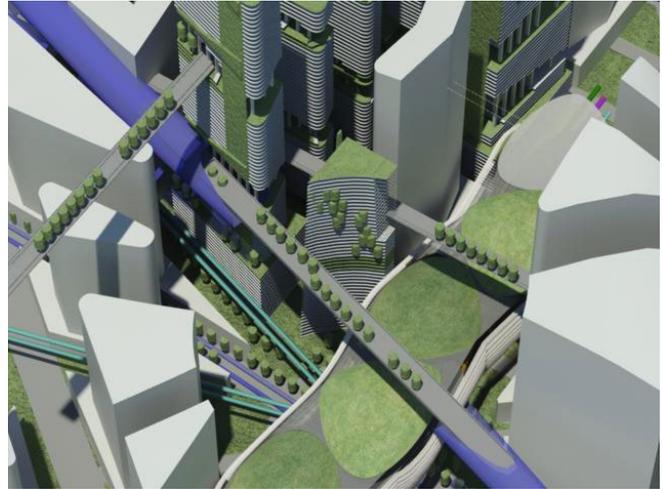
**Jan 2011 – May 2011**

**Design Studio (FAU - 5<sup>th</sup> year – Thesis Project) – Spring 2011 (Co-taught with Dr. Ken Yeang)**

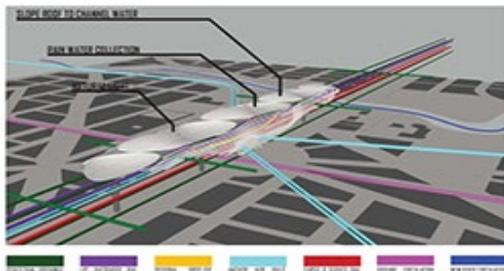
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Master Plan – Fort Lauderdale, Florida



Concept Sketch – Analog



Visiting Lecturer / Associate Professor

Jan 2011 – May 2011

Florida Atlantic University – Fort Lauderdale, Florida / USA

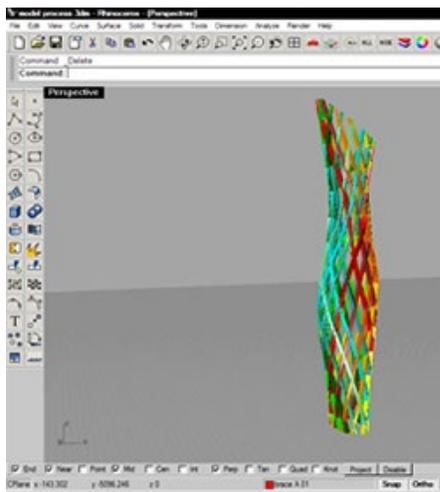
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Design Studio (FAU - 5<sup>th</sup> year – Thesis Project) – Spring 2011 (Co-taught with Dr. Ken Yeang)

STUDENT WORK – Mississippi State University – Digital Design II Studio – Spring Semester 2007



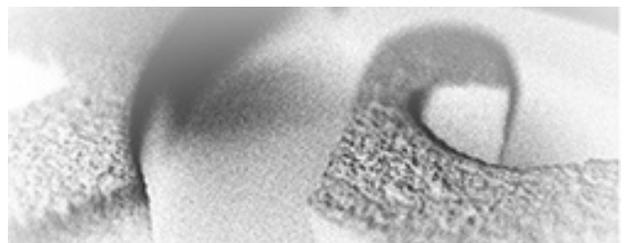
James Johnson



Bo Zhao



Saurabh Dutta

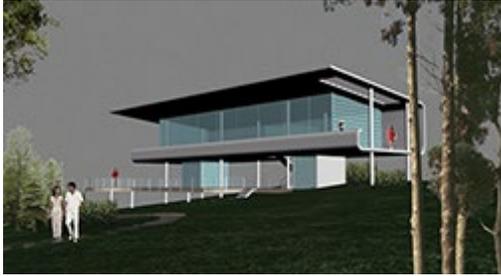


Justin Taylor / Shaima Al Arayedh

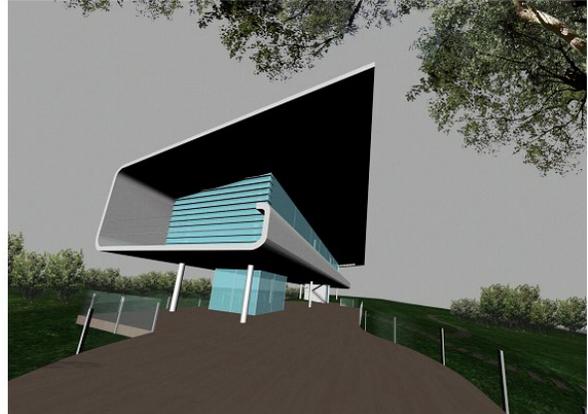
**Associate Professor**

Mississippi State University – Starkville, Mississippi / USA  
Digital Design II – Digital Design / Fabrication course – 2007

STUDENT WORK – Mississippi State University – Digital Design II Studio – Spring Semester 2005  
(Graduate Student – Guochang Wang)



3D Studio Max



2D AutoCad



3D Z-Corp Printed Model

3D Studio Max / SketchBook Pro – 3D Model Hybrid Media Sketch

**Associate Professor**

Mississippi State University – Starkville, Mississippi / USA  
Digital Design II – Digital Design / Fabrication course – 2005

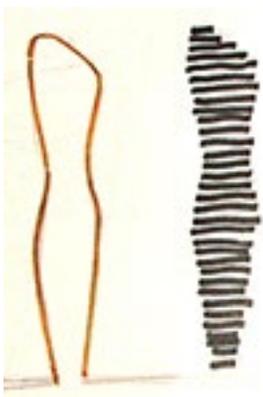
STUDENT WORK – Mississippi State University – Digital Design II Studio – Spring Semester 2007  
(Graduate Student – Bo Zhang)



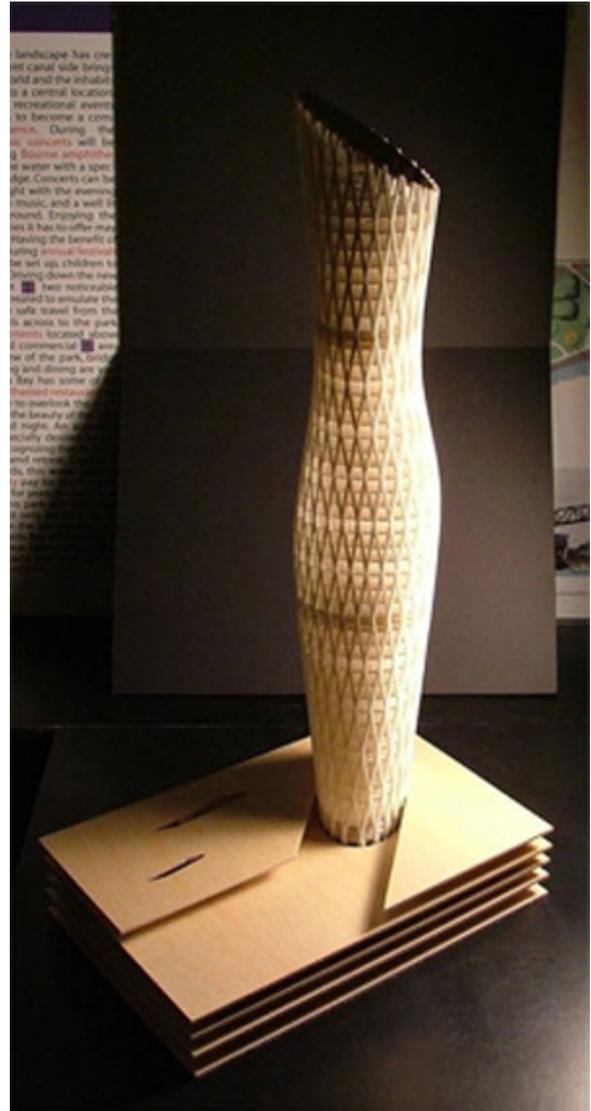
Z-Corp Printed Model



Rhino 3D Model



2D Analog Drawing



3D Printed Tower Model / Base - Laser Cut

**Associate Professor**

Mississippi State University – Starkville, Mississippi / USA  
Digital Design II – Digital Design / Fabrication course – 2007

# TEACHING

By Example

... Purpose & Doing ...

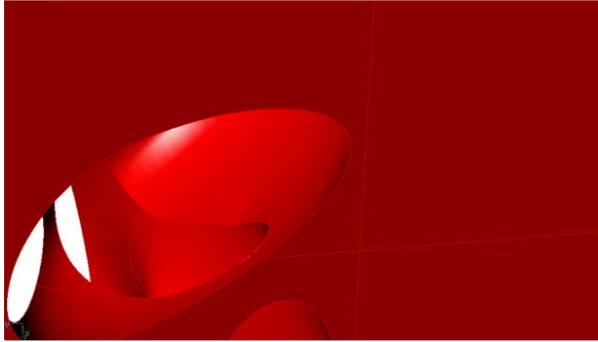
Larry Barrow

Analog Drawings / Representation

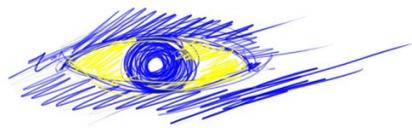
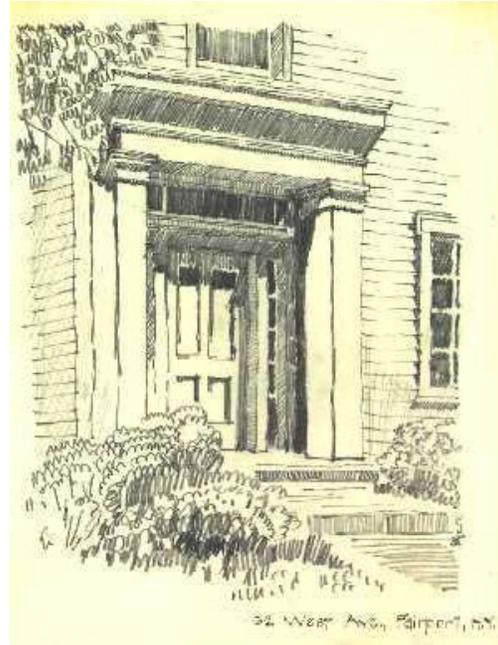
Integrated Practice / Design-Research-Build-Fabrication

Global Research

Larry Barrow PERSONAL Drawings - Digital Modeling – Research Travel - People



LRB: Rhino Digital Model – Image - 2007



LRB: SketchBook Pro - Digital Draw - 2011

LRB: Pencil Drawing – 1978 – University of Florida



Abottabad, Pakistan - 2007



Abottabad, Pakistan - 2007



Kibera Slum – Nairobi, Kenya - 2010



Kibera Slum – Nairobi, Kenya - 2010



Kibera Slum – Nairobi, Kenya - 2010



Nigeria Delta Youth Movement – Nigeria - 2012



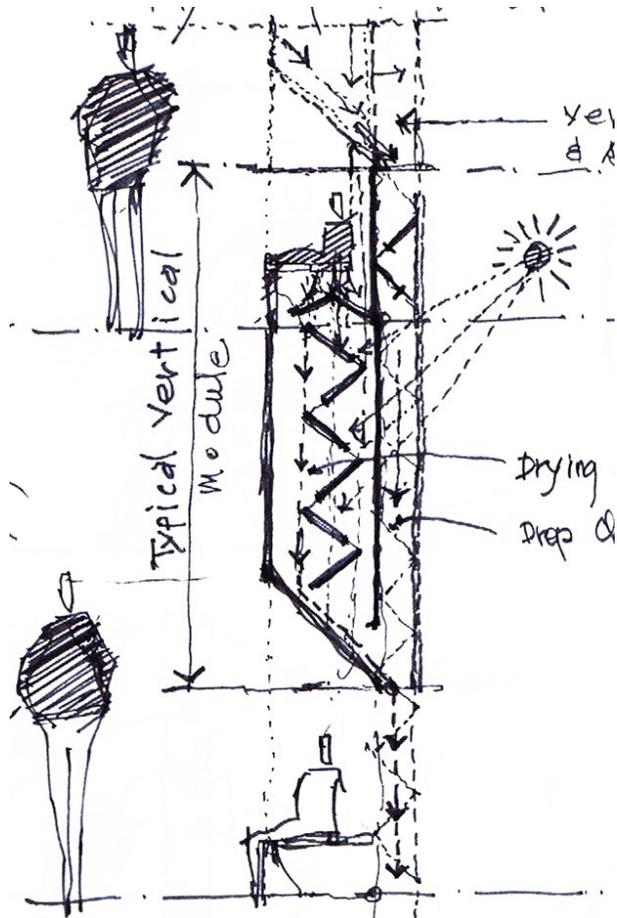
Shantou, China - 2013



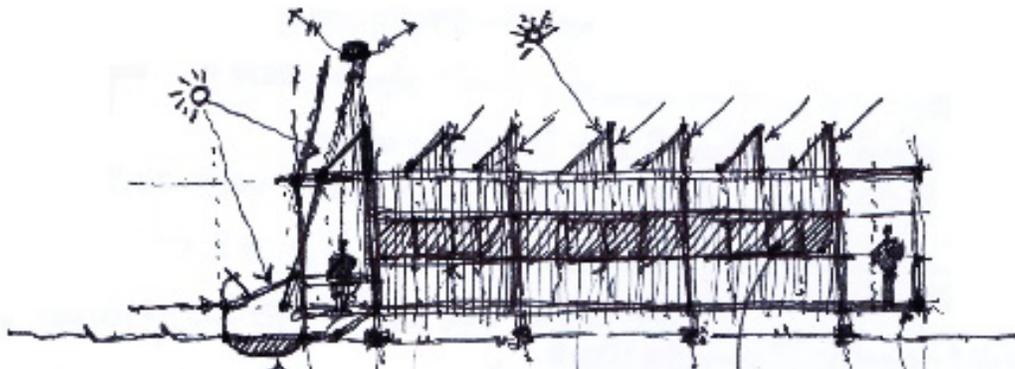
Abuja, Nigeria - 2014



Abuja, Nigeria - 2014



Invention – Solar Compost TOILET



Invention – Modular Housing SYSTEM