AARON JACKENDOFF Industrial Design RIT 2013



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Part 1 of 9

Meta Project Senior year 20 week project

Project Brief: Design Universal Wooden Toy

Client/Sponsor: Areaware

Users

Kids age 7+ Adults who like wooden toys on their desks A gift from one adult to another

Material

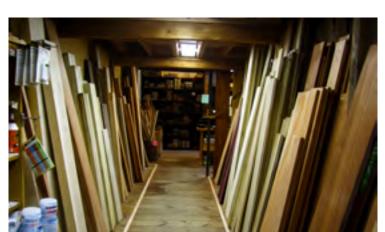
Wood



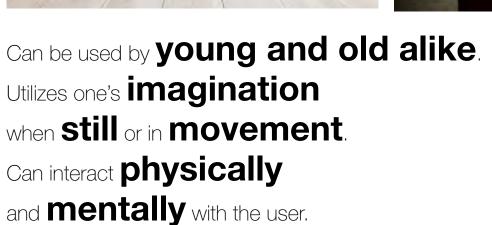
Kitchen table Floor Business Desk

Universal Toy Definition













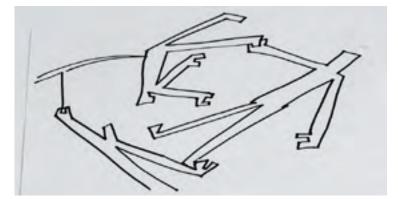


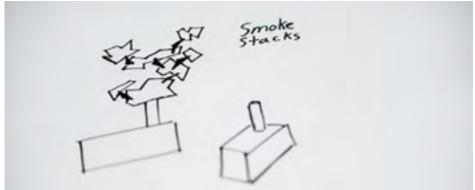


Part 2 of 9

INITIAL EXPLORATIONS

CONNECTING BLOCKS
INTRIGUED ME.
LOOKING AT IT I WAS REMINDED
ME OF SMOKE STACKS.

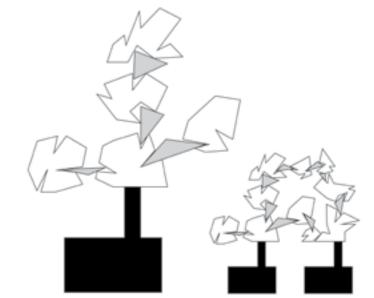










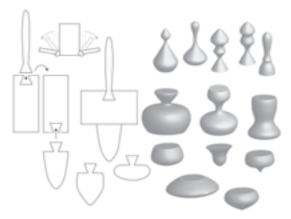


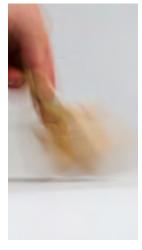




















Part 3 of 9

REFINEMENT

SMOKESTACKS TO CONNECTING
IN 3 DIMENSIONS.
FORM BECAME CLOUDS.
CLOUDS TO BIRDS.

























PART 4 OF 9

REFINEMENT

Birds to Bees Inspired by the shape of the

housing unit.

Exploration through 2D, 3D sketches in various materials.

Form factor between bees and hive.













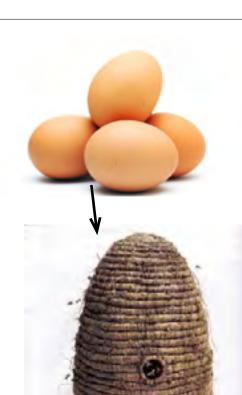




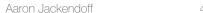














Part 5 of 9

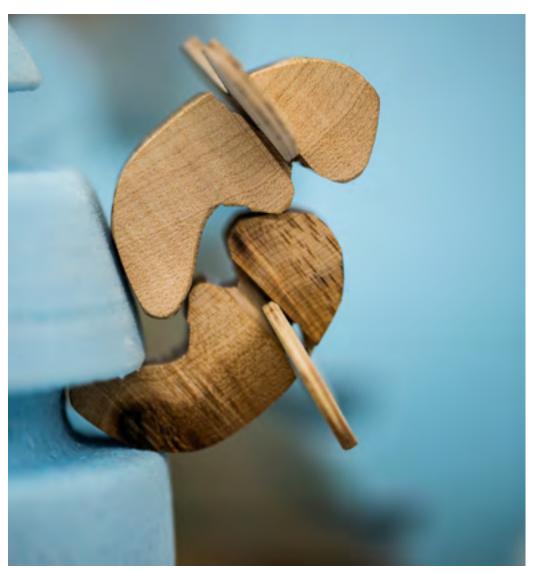
REFINEMENT







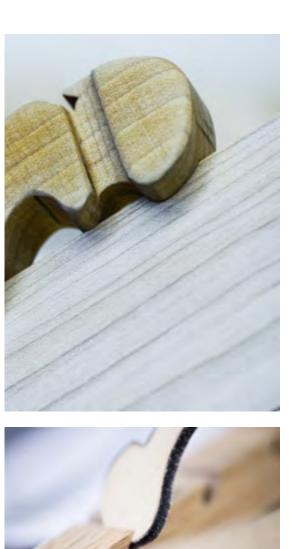




Universal WOODEN TOY

Part 6 of 9

REFINEMENT







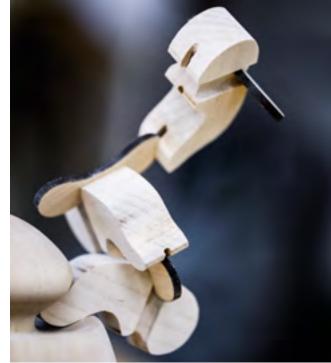












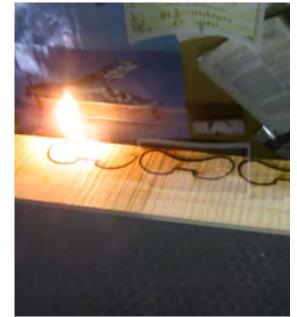


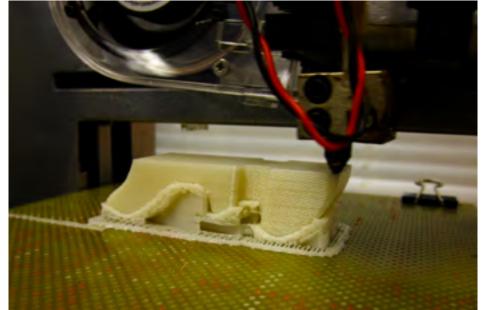
http://tinyurl.com/jackendoff-IDresume Aaron Jackendoff 412.867.5338 www.jackendoff.com aaron@jackendoff.com www.aaronjackendoff.blogspot.com

Part 7 of 9

GETTING IT DONE

Processes include
Laser Cutting
3D Printing
CNC Lathing

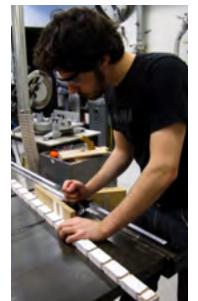




















Expl anation

Part 8 of 9

Problem

To create a universal toy primarily **fabricated from wood**.

Context

BeeKeeper provides for contemplative meditation through the sight and feel of the exquisitely carved wooden hive and the bees. **Inspired by** both the traditional **"skeps"** (baskets made specifically to hold bees and their honeycomb) as well as by the archetypal image of a natural beehive.

Solution

BeeKeeper is a wooden prototypical beehive, with wooden bees that can either be **hung** off it, "**flown**" by hand, or **stored** inside. Its design is minimalist, yet conjures images of the complex society of a beehive. Its simplicity provides minimalist beauty.

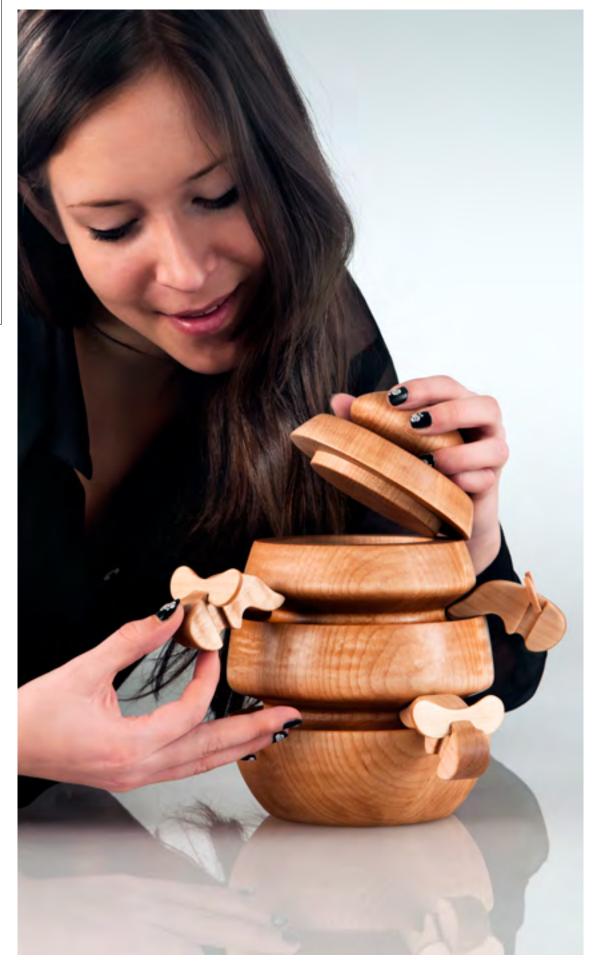
Brand Strategy

BeeKeeper can be marketed through several avenues: Purveyors of high quality honey products, such as boutique specialty food stores; Vendors of supplies and journals for apiarists (actual beekeepers); Museum shops in horticultural conservatories and formal gardens; Online shops of organizations that promote ecology and "green" causes; Museum shops in natural history museums and zoos; and, Museum shops in art museums, especially those that have large collections of modern and/or minimalist art. By stating that a portion of the purchase price will be donated to the fight against Colony Collapse Disorder (CCD), the company will also be targeting these buyers' proclivity towards supporting causes that protect nature.





FINAL PROTOTYPE
MAPLE









MARTINI

PART 1 OF 2
ICEBREAKER/MULTIMEDIA STATION

EQUIPMENT DESIGN
JUNIOR YEAR
2 WEEK

ELECTROSTATIC SPEAKER

DESIGN BRIEF

INNOVATIVE PIECE OF

EQUIPMENT BASED

ON USERS, A TECHNOLOGY,

AND ENVIRONMENT.

Users

25-40 year old
Tech-savvy
Hosts parties
No children
Have roommates/house mates

Technologies

Flat, Flexible Loudspeaker

A thin laminate made of layers of conducting and insulating material that resonates when electricity passes through

Corning Lotus Glass

A new high-performance display glass developed to enable cutting-edge technologies: OLED (organic light emitting diode)

Environment

Apartment / House
Parties
Living Room
Hallway
Office
Meetings
Conference Room















MARTINI

FINAL ICEBREAKER/MULTIMEDIA STATION

THE "OLIVE" BECOMES A
MICROPHONE AND PERSONAL
VOICE RECORDER.
THE MICROPHONE WIRELESSLY
CONNECTS TO THE GLASS WHICH
ACTS AS A MEDIA STORAGE
DEVICE AS WELL AS A SPEAKER.

Martini

form relaxes the atmosphere that Gen X and Y desire

Touchscreen Interface

Located at the top

Olive

/microphone is encased in a soft silicone padding

Conference Calling

wirelessly connect with your phone/computer/tablet and allows a better conference experience



thoughts/secrets/jokes

Stores

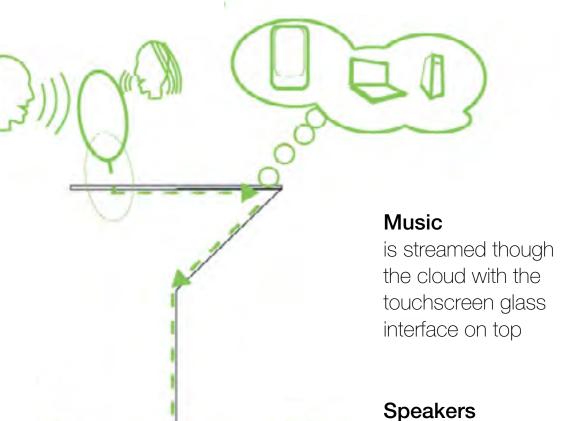
Voice recordings/music

Game

At a party secrets/jokes are spoken into the Olive then sent wirelessly to the Martini Glass-stored-randomized with voice changers creating anonymity. The speakers will project the secrets into the room allowing the Martini to be the icebreaker







Speakers at the base share with the room



PART 1 OF 6

FOURMENT DESIGN JUNIOR YEAR

PROJECT BRIEF: DESIGN AN INNOVATIVE PIECE OF EQUIPMENT BASED ON USERS, A TECHNOLOGY, AND ENVIRONMENT.

A **prototype** of a paint mixer made by a friend.

Mixes by reciprocating at **high velocities** rather than by using blades which introduce more aeration or change the chemical dilution of certain dyes.

This design shakes a lot. The new design has to look and feel more stable. The new design should also be safe.

Design Brief

Design a small paint and dye mixer that efficiently agitates the mixture at high speeds.

Mixing by agitation, versus using blades, will reduce the chemical change and aeration which is detrimental to certain mixtures.

Certain metal-based paints need to be constantly agitated until used.

Paint and dye can be **measured** for mixing by either weight and/or volume.

Given Technology



Benchmarking

Consumer measuring and mixing











Dye mixing







Mixing paint in

larger quantities







Button and display ergonomics

Aaron Jackendoff aaron@jackendoff.com www.aaronjackendoff.blogspot.com http://tinyurl.com/jackendoff-IDresume www.jackendoff.com

Part 2 of 6

USERS

Mike

Age 52 Gender Male

Location Rochester, NY
Occupation University Professor

Income \$70,000

Hobbies DIY

Projects Model Making

Car Touch-ups

Small Furniture Making Small Home Repairs

Lives in a semi-urban environment.

Enjoys painting and is particular in his color mixing.

Likes to make custom colors.

Is willing to budget to make to make **DIY projects easier**.

Does small **DIY** projects after work in his **spare time**.

As he is aging, mixing and doing repetitive tasks

with his wrists is **becoming more difficult**.

Likes to do touch-up painting.

Michelle

Age 33 Gender Female

Location Rochester, NY

Occupation High School Teacher

Income \$50,000Hobbies Fiber ArtsProjects Dyeing fabric

Making clothes and pillows

Bleaching clothes

DIY Project Budget \$1,000 annually Lives in a semi-urban environment.

Enjoys making clothes

and is particular in her color mixing.

Likes to make **custom colors**.

Would like to mix dyes more efficiently

in her shared studio space.





Part 3 of 6

Environment

DIY Paint Projects



























PART 4 OF 6

3D SKETCHES

1st iteration

Container and Holding Device

Together



2nd iteration



















PART 5 OF 6

HUMAN FACTORS

Container Ergonomics





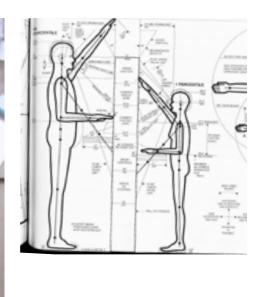








Viewing Angles





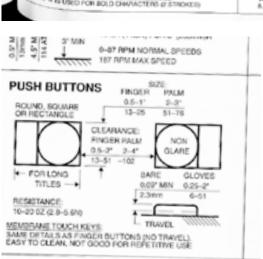






Measuring by weight





THUMBWHEELS











FINAL MODEL
FULL SCALE
18 INCHES TALL
YELLOW FOAM AND STYRENE





EYE-LIGHT Part 1 of 3

PROJECT BRIEF: DESIGN A CFI LIGHT FIXTURE UTILIZING GIVEN COMPONENTS.

SOPHOMORE DESIGN STUDIO SOPHOMORE YEAR

RESPONSE: DESIGN A

HUMOROUS APPROACH TO PARENTAL SUPERVISION

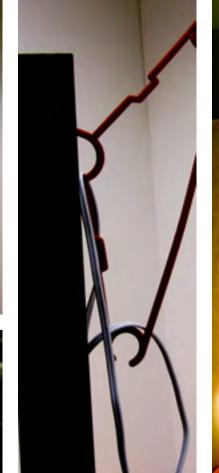
Process



















412.867.5338 Aaron Jackendoff aaron@jackendoff.com www.aaronjackendoff.blogspot.com http://tinyurl.com/jackendoff-IDresume www.jackendoff.com

EYE-LIGHT

Part 2 of 3

WHEN A CHILD HAS

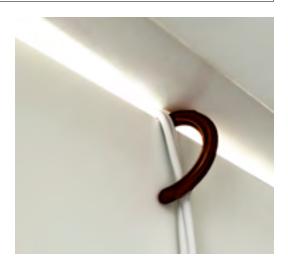
MISBEHAVED THEIR PARENT WILL

SOMETIMES SAY "I'M WATCHING

YOU" SO THAT THE CHILD WILL

NOT ACT UP AGAIN.

WHEN THE LIGHT IS OFF,
IT LOOKS LIKE AN ORDINARY
HOUSE LAMP, A PIECE OF
DECORATION.











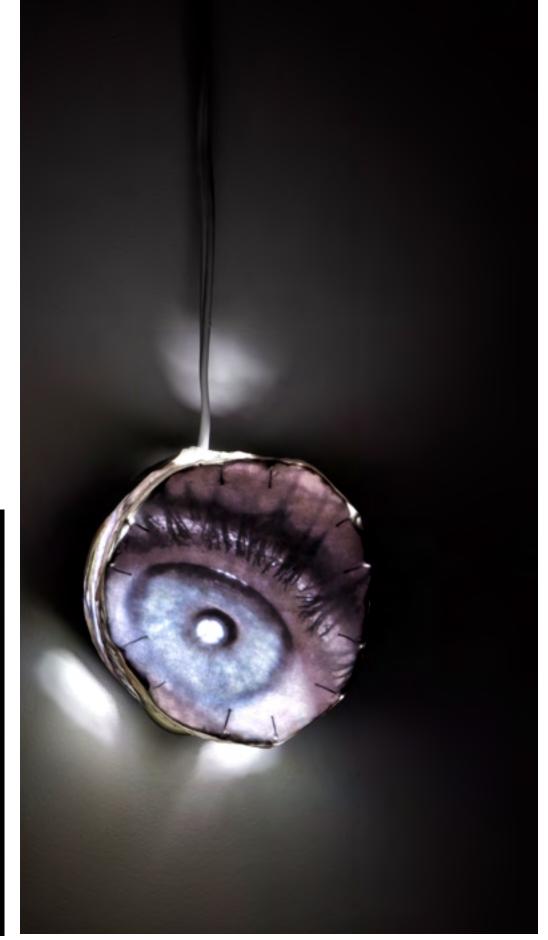
EYE-LIGHT FINAL

HOWEVER, WHEN THE LIGHT
TURNS ON (I.E. THE PARENT
BECOMES ANGRY), THE PARENT
WILL HANG THE GLOWING
LIGHT ON THE CHILD'S DOOR,
LEAVING THE PRESENCE OF THE
PHRASE IN THE ROOM.

TO FURTHER PROVE THE POINT,
THE HANGING MECHANISM
ALLOWS THE PARENT TO HANG
THE LAMP ON THE CHILD'S DOOR
WHILE THE CHILD IS IN TIME-OUT.
THIS PREVENTS THE CHILD
FROM CLOSING THEIR OWN
DOOR, AND ALLOWS THE PARENT
TO CONTINUE TO WATCH.







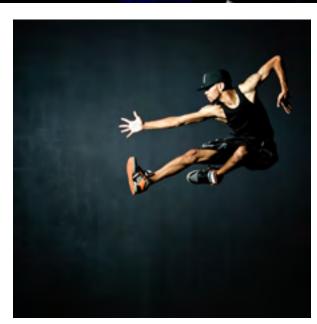
PHOTOGRAPHER





















STEEL + PHOTOGRAPHY

Work in Progress









DIY SEATING DEVICE

BUDGET \$29.95

SPONSOR THE HOME DEPOT

GROUP PROJECT

SOPHOMORE DESIGN STUDIO SOPHOMORE YEAR













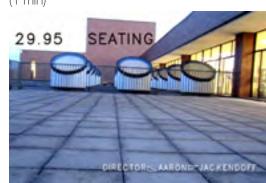








Watch Usability Study on Vimeo http://vimeo.com/23551347 (1 min)



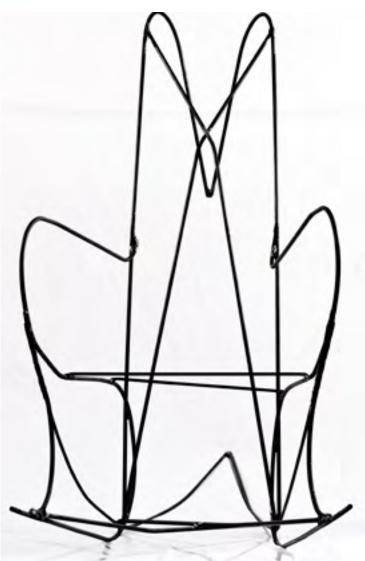
Welding Design

PROJECT |
SITTING AND ROCKING CHAIR
FRAME

A CHAIR BASED ON EDWARD WESTON'S NUDES.

THIS CHAIR CAN BE USED AS A STILL CHAIR, AND THEN WHEN THE USER IS SO INCLINED MAY ROCK AND FURTHER RELAX.











Welding Design

(Work in progress)

Project II, III, IV

SWIVEL SIDE TABLE

MAY BE DISASSEMBLED INTO SEVERAL PARTS AND CAN FOLD OUT SO THE USER HAS MORE SPACE SIDE TABLE SPACE

ROCKING CHAIR

THIS CHAIR IS COMPOSED

OF BOTH RECTILINEAR AND

CURVILINEAR PIECES. WHEN

BOLTED TOGETHER THEY

GIVE THE SITTER A SENSE OF

EMPOWERMENT.

THE ACTUAL SEAT WILL BE A

CHAIN CHAIR

STRETCHED FABRIC

ALTHOUGH THIS MAY LOOK LIKE
A TORTURE CHAIR, ACCORDING
TO MANY SITTERS IT IS
SURPRISINGLY RELAXING.
(PHOTO TAKEN IN THE WELDING
STUDIO)









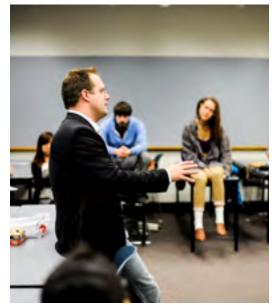
THOUGHT@WORK

PART 1 OF 3
INDUSTRIAL
DESIGN STUDENT
CONFERENCE

OCTOBER 26-28, 2012
SOPHOMORE - SENIOR YEAR
LEAD COORDINATOR

COMMUNITY, EMPATHY AND EMPOWERMENT THROUGH HEDONISTIC SUSTAINABILITY

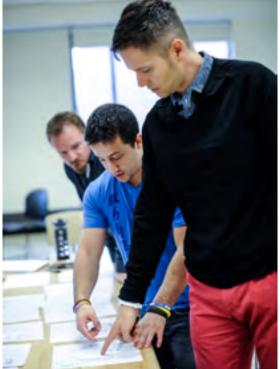
















Built from the ground up, the only thing remaining was some name recognition from the 2003 and 2004 Thought at Work conferences.

1 year 6 months of planning

3 day event

280 participants

8+ schools in attendance, some driving over 8 hours including Syracuse University, Pratt, Cleveland Institute of Art and Humber College

18 professional + 10 graduate speakers

3 Gallery Shows (Alumni, Graduate and Innovation)

2 concerts, 3 live bands

5 **RIT clubs** involved: AlGA, New Media Club, GET, RIT Music Association and RIT Industrial Design Society of America student chapter

RIT organizations involved: Vignelli Center for Design Studies, RIT Alumni Association, RIT Innovation Center, RIT University Gallery, RIT Bevier Gallery

Sponsors Included: RIT, SUIID, Industrial Design Society of America, Core77, Raymond Corp, Keyshot, Moo.com

Events included: **28 workshops and lectures**; portfolio review award ceremony; render-off, design and drawing competitions, Vingelli center tours

Food 110 pounds of wings; cookout; bagels and coffee; tons of drinks, a catered lunch for speakers, after party with live music and food

Built a Team: 40 student workers

Including: 2 co-coordinators, graphic designer, volunteer manager/ team, web team, couch surfing coordinator, food coordinator, 3 photographers, 2 videographers, graduate team

THOUGHT@WORK

Part 2 of 3
Industrial
Design Student
Conference

October 26-28, 2012
Sophomore - Senior Year **Lead Coordinator**

COMMUNITY, EMPATHY AND EMPOWERMENT THROUGH HEDONISTIC SUSTAINABILITY

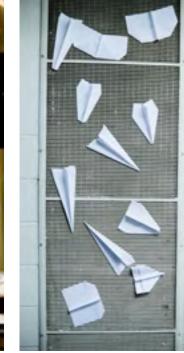










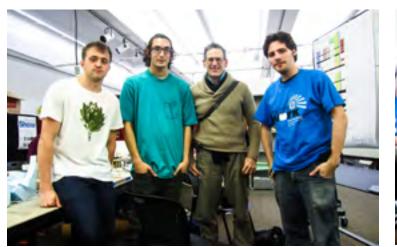














THOUGHT@WORK

FINAL
INDUSTRIAL
DESIGN STUDENT
CONFERENCE

October 26-28, 2012
Sophomore - Senior Year **Lead Coordinator**

COMMUNITY, EMPATHY AND EMPOWERMENT THROUGH HEDONISTIC SUSTAINABILITY









Lead Coordinator for Thought @ Work 2012, Industrial Design Student Conference

Projects included: Speaker Lead, Scheduling Lead, Information Flow Lead; Finance and Sponsorship Lead, **brought in over \$10,000**; Registration systems online and offline; Volunteer recruitment.

Lead of Web and Social Media: Built a small team of a developer, designer and content manager. Facebook grew to 240 likes, 3500 people reached/week and 160 people "talking about it"/week all within one year.

SEO: First actual website of Google, when searching for "Thought At Work". We had to compete with The Roots.

Awards: IDSA chapter of the month (first student chapter to receive award)

Mentor for Thought@Work 2013

Now with 40 active student members.