PORTFOLIO, Shauna Jin

2003-2007

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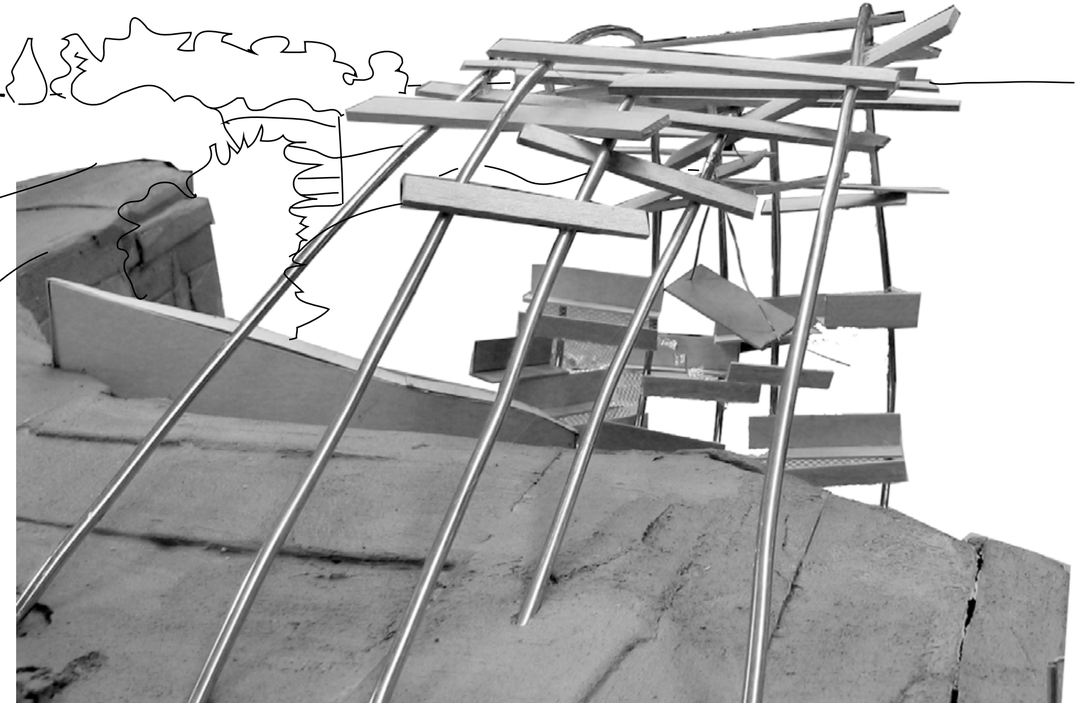


ARCHITECTURE, Third Studio

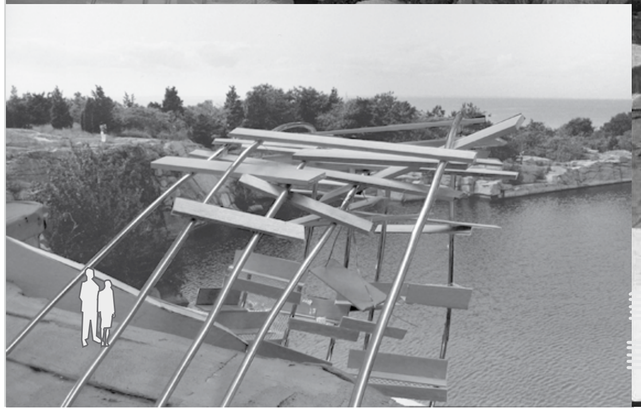
FREE JAZZ SPACES

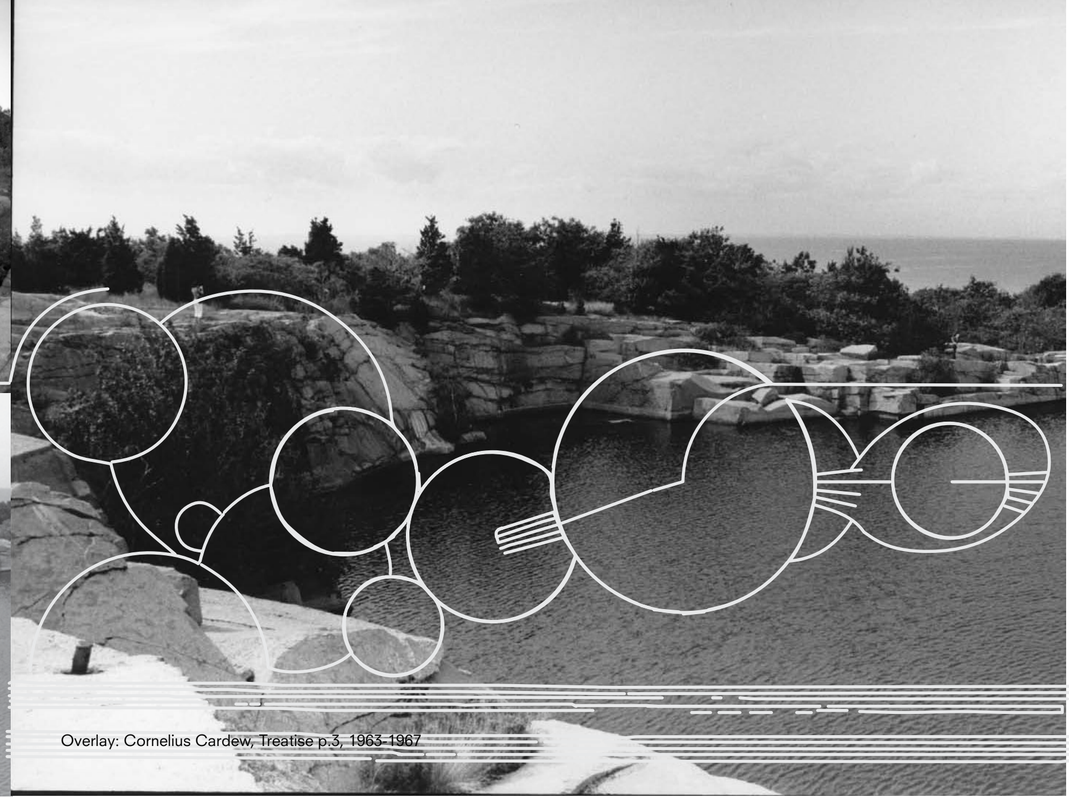
Rockport Quarry, MA

A concert space for free jazz performances. The undulating, chaotic seating and sound panels are aranged within a bent metal grid. The building relates to its surroundings through form and the exposed nature of the structure.

The five bent metal tubes represent the five bars in a clef that govern the boundaries of each note, in this case each chair or sound panel.

Fall, 2005. Building in Landscapes.
Mentor: Alan Joslin





Overlay: Cornelius Cardew, Treatise p.3, 1963-1967

ARCHITECTURE, Second Studio

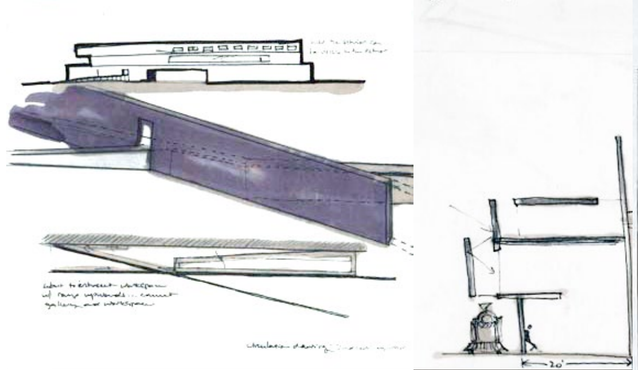
EXHIBITION SPACE

Cambridge, MA

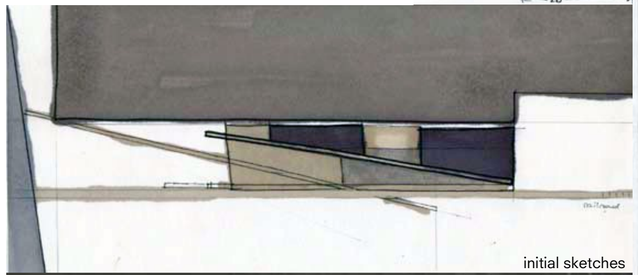
Exhibition, live, and work space for ten visiting artists. The site location was chosen for the connectivity of the site to Massachusetts Avenue, the railroad, and the greater MIT community.

The space is designed around concepts of framed views, external ramped circulation, and enclosed but exterior spaces. The facade of the building is designed as an billboard, video exhibition space. The broken planes are designed to frame views, to serve as a datum structuring the inside spaces, and to create “limbo” spaces that are neither completely interior nor exterior in nature. The billboard intersects the train tracks on the ground plane, and the passage of the train is visible from the second story. The billboards draw attention to the building and interior exhibition by creating fragmented views from different vantage points.

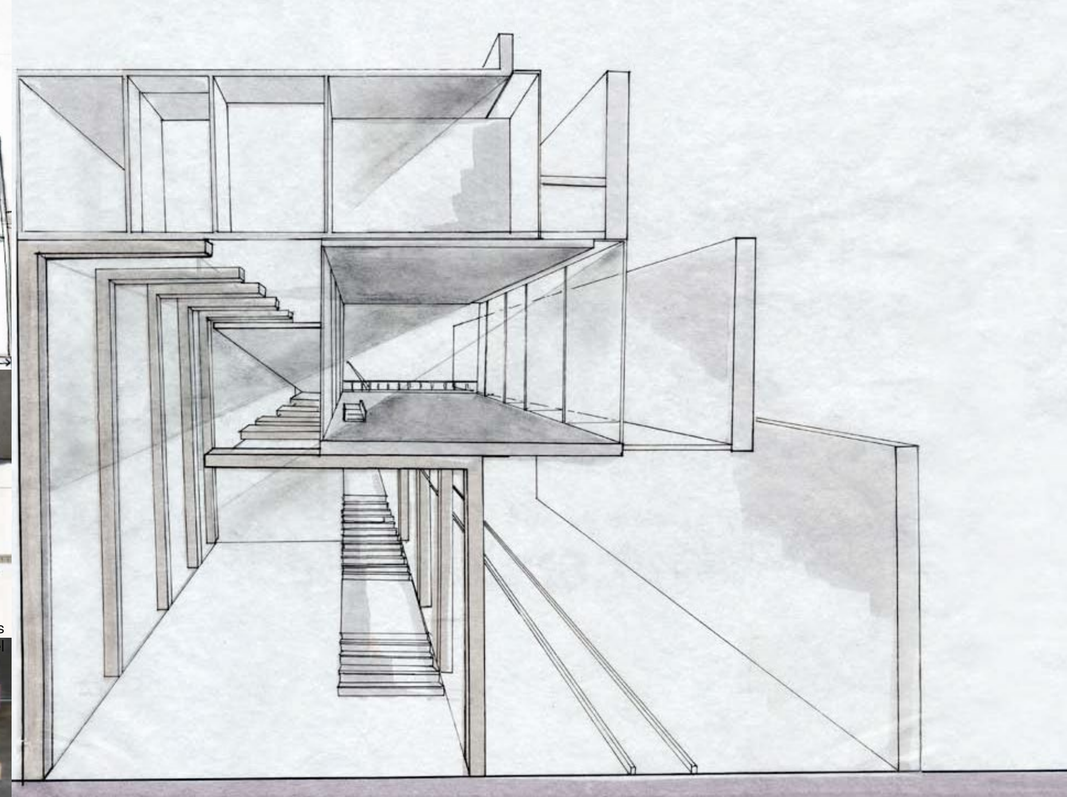
Fall, 2004. Architectural Intentions.
Mentor: Joel Turkel



initial sketches



circulation sketch model



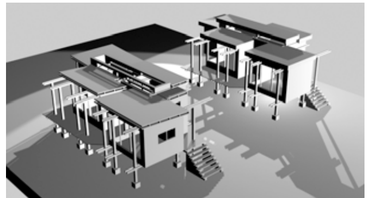
ARCHITECTURE, 3D-Modeling

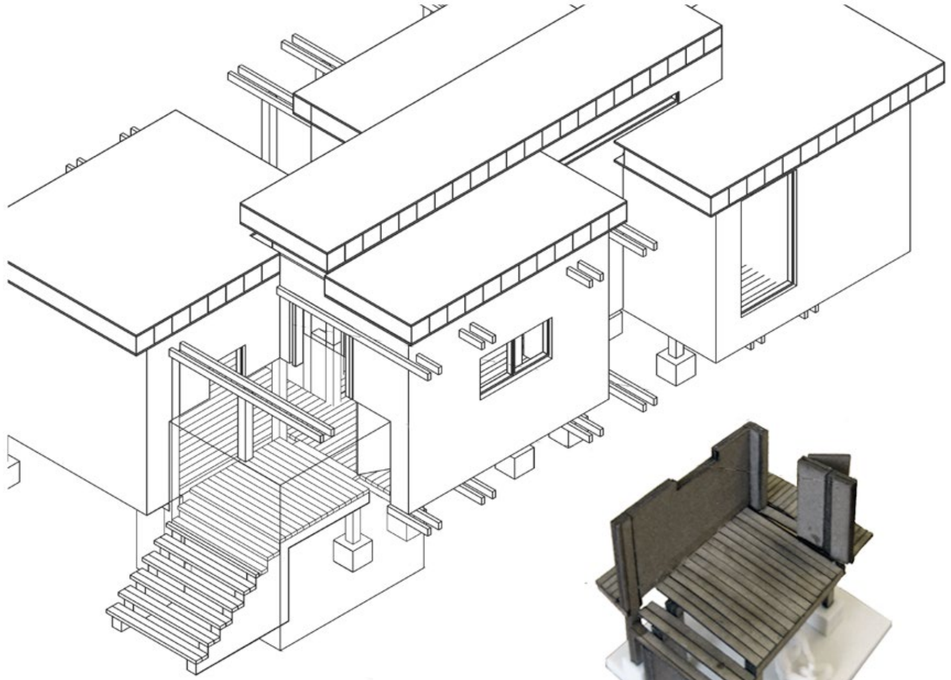
SEA COTTAGE

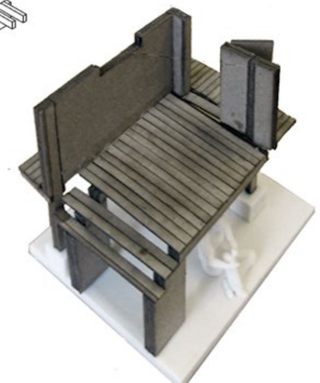
Provincetown, MA

Computational design project, where the focus was the design, CAD model generation fabrication, and iteration of a beach house in Cape Cod, Rhode Island. The cottage was designed under 400 square feet for one occupant. The design was generated using shape grammars and a concept of modular, overlapping room spaces. Each room is open to the entirety of the cottage while maintaining its own space and identity. The cottage is oriented towards the NE for privacy from the path as well as views to sunrise over the ocean.

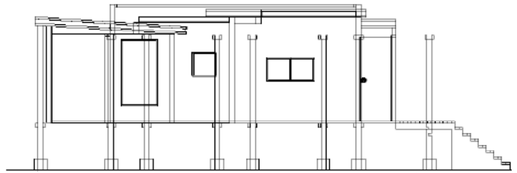
Spring, 2006. Computational Design.
Mentor: Larry Sass







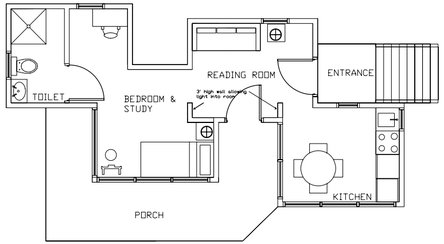
isometric view and rapid prototype
section cut



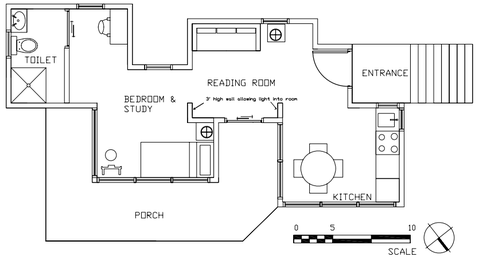
section cut

floorplans

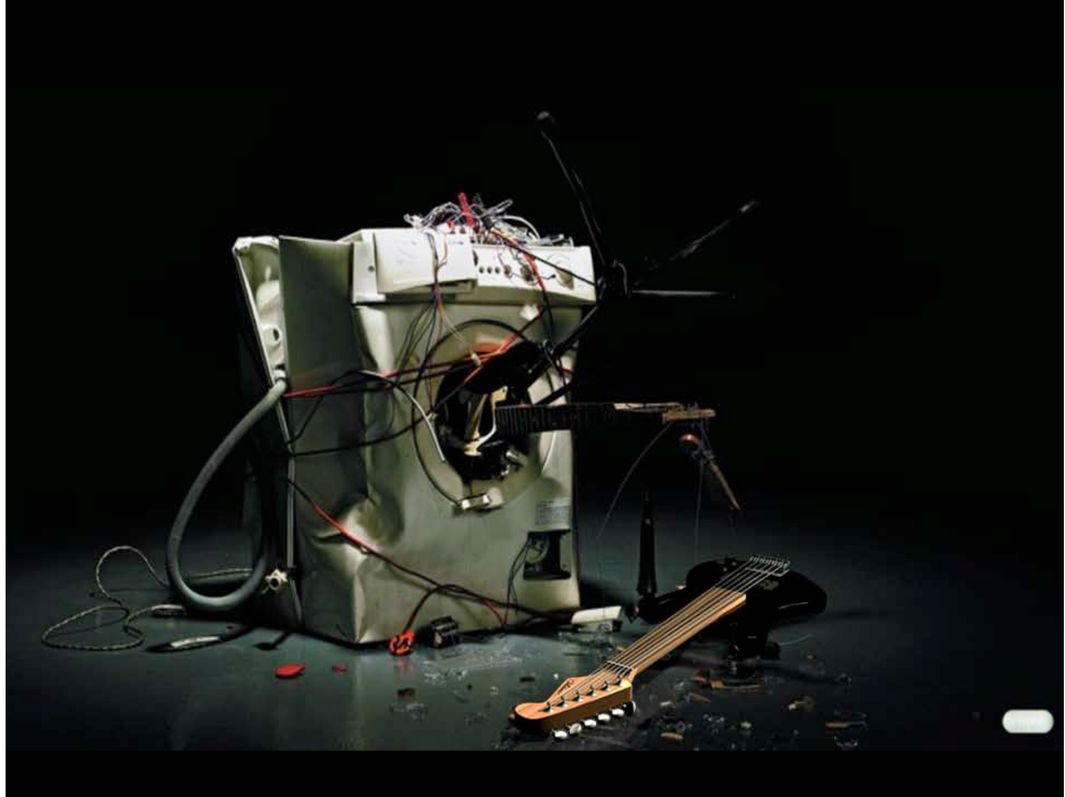
SCHEME 1



SCHEME 2



Mini-guitar placed into Ogilvy Singapore's Panadol Extra campaign poster.



PRODUCT DESIGN, 3D-Modeling

MINI-GUITAR

Delft, NL

Final gather and material study of a mini-guitar in Maya. The end result was a combination of parts constructed in Maya and SolidWorks.

The mini-guitar was placed into the context of advertisements and rendered to create the same original ambience nad lighting.

2007. Computer visualization.
In collaboration with Peter de Graaff

PRODUCT DESIGN, User Centered Design

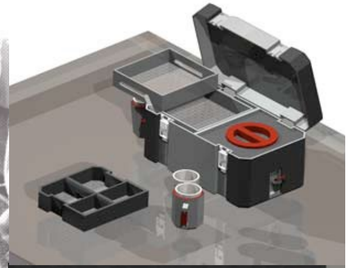
HIGH-COFFEE SET

For Offshore Workers

The ritual of high tea is usually associated with the higher-classes. Images of delicate, translucent porcelain, lace, towers of tiny cakes, and gossiping ladies come to mind. On the other end of the spectrum, the life of an offshore worker is dangerous. Isolated from society these workers toil under life threatening circumstances on a daily basis.

The following design proposal seeks to bring the important social aspects and ritual aspects of high tea to an offshore context. The design mediates the traditional feminine connotation of high-tea into an analogous yet acceptable form for offshore workers to decrease the level of isolation between workers and introduce the ritual of social, leisurely break time.

Interviewing an American offshore worker for Schlumberger revealed the fact that drinking tea is seen as emasculating in his context. The men lead a highly structured life ruled by rigid schedules of work and breaks. The interview showed that everything related to food on a rig is disposed of, not washed, and that the only possessions of the men onboard are a prized toolkit or a few choice tools. The set seeks to incorporate the social, ritual, and time taking aspects of high-tea into a setting that can become a natural part of the lifestyle and material environment of offshore workers.



The product is modeled after a toolbox and gathering point for breaks. The portability of design allows break time to take place in the control room, break room, or outside on a nice day.

The right compartment holds coffee that is dispensed through a tap on the side of the box. Opened like a toolbox, the trays hold condiments for coffee consumption and disposable cups. Cups are clipped to the side of the toolbox, into which disposable cups can be inserted. For the occasion that the weather is nice outside, the cups are attachable to the side of the rig.

The toolbox functionality and aesthetic encourages familiar interaction in a new context to promote breaks and socialization amongst offshore workers.

Design Manifestation, 2006.

PRODUCT DESIGN

LEDs in GLASS

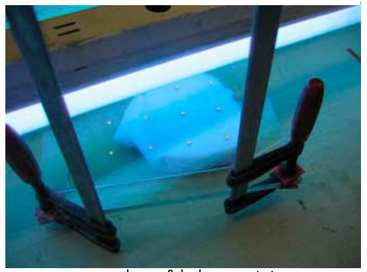
Philips Lighting & TU Delft

Extending Philips' technology of electrically embedding LEDs in glass via a spray-on and laser cut electrical circuit, we tackled the problem of how to make electrically optimized, connectable modular units with one power source taking into account issues of aesthetics, robustness, safety, and extendability.

The lasered electrical circuit was optimized to deliver equal amounts of current per plate module and a plug-and-play connector was designed. Three interchangable plate modules with 16 LEDs per plate were prototyped driven with a 1.2Amp current at 24V.

Spring, 2007. Project Advanced Projects.
In collaboration with: Sander de Clerecq, Peter de Graaff, Alexander Ettema, Alexander Geijzendorffer.

connector detail



above & below: prototype process
right: working prototype

PRODUCT DESIGN

VAC PAK

Mechanical Engineering, MIT

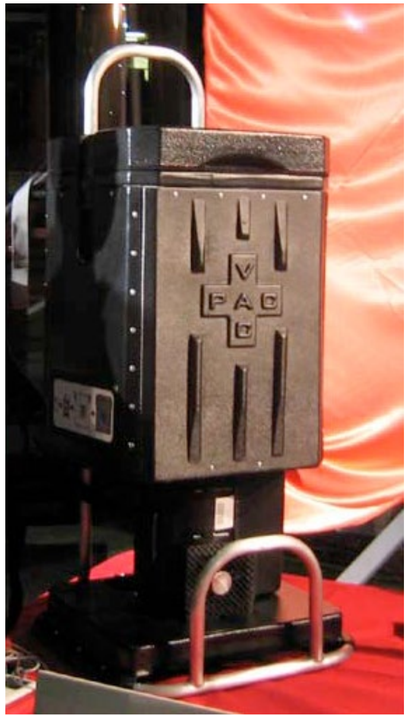
Project in a group of 18 to develop a solution to transport vaccines to off-the- grid areas in Africa, minimizing wasteage from spoiled vaccines.

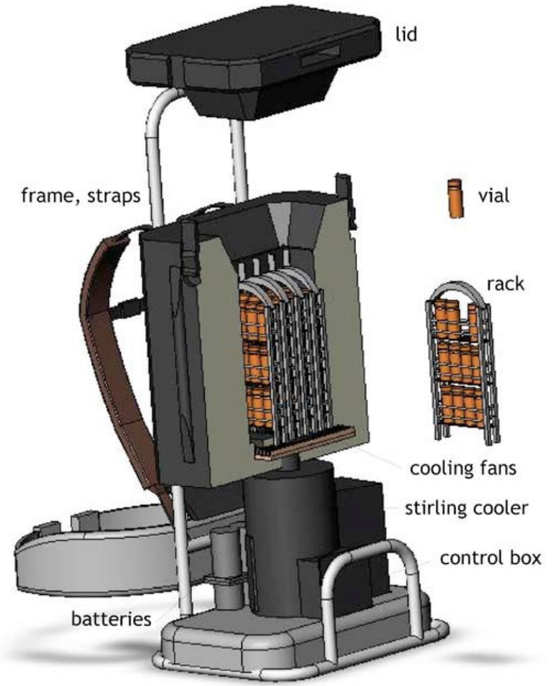
The solution keeps vaccines cool for 24 hours per battery charge and can be charged by AC outlet, car battery, IC engine or by solar panels. The product maintains vaccines at 2-6°C using the stirling refrigeration cycle. Ergonomic hands-free carrying 8 Liter storage capacity can hold up to 1200 doses in an upright, and easy to access position.

The carrying design was based on the form and ergonomics of hiking backpacks and the total weight fully loaded was minimized at 35 lbs. Product patented.

Spring, 2005. Product Engineering Processes.
Mentor: David Wallace
Team Orange (18 students).

above: vaccines in racks
below: user testing on a climbing wall





GRAPHIC DESIGN

T-shirt Design
Client: O.O.O.1 football team shirt
2007

Christmas Concert Flyer Design
Client: Krashna Musika Orchestra and Harlem Choir
2007

Car Art Exhibition Poster Design
Client: Jorn van Dijk and Pieter Williams
2007

AbstractionMissed Connections, USS Constitution Museum
Architectural studio
2006