



PORTFOLIO OF
SHEETAL SHARMA
SYMBIOSIS INSTITUTE OF DESIGN

DESIGN PROJECTS



STACK
Laptop holder



SUB ZERO
Deep freezer



SULABH
Toilet for slum children



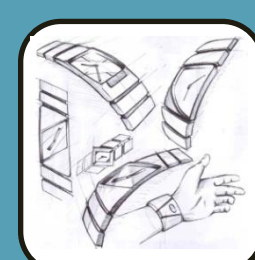
ROCKING SCOOP
High chair



GREEN T
Tea packaging



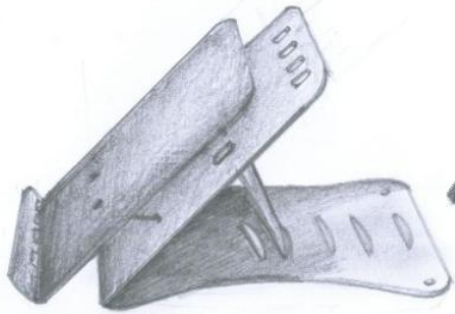
Mysteries of sand
Game designing



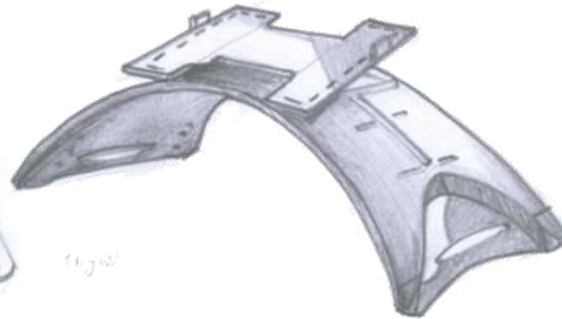
skills

STACK

LAPTOP HOLDER



Adjustable height holder



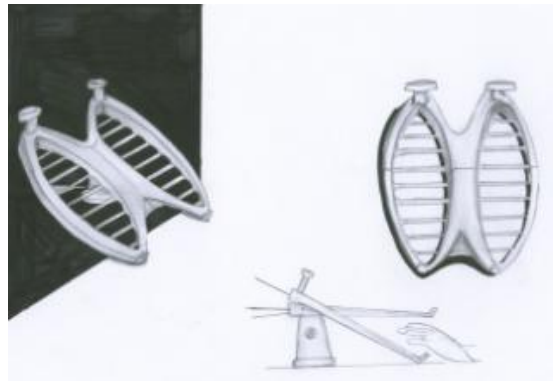
Adjustable bed stand



Laptop holder in built a bag



Brief case laptop holder with 1 fan



No fan laptop holder, adjustable height



DESIGN PROCESS

•Product study



•Parallel products



•User study



- Problem areas
- Difficulty in typing
- Low Durability
- Feeble stoppers
- Wastage of USB port
- Blocked headphone jacks
- Bulkiness

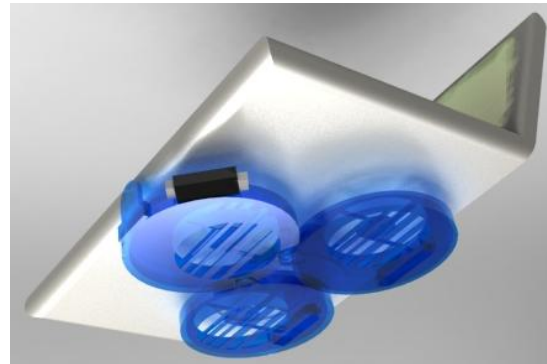
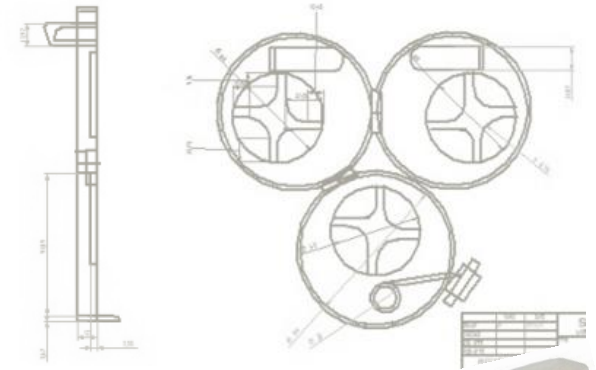
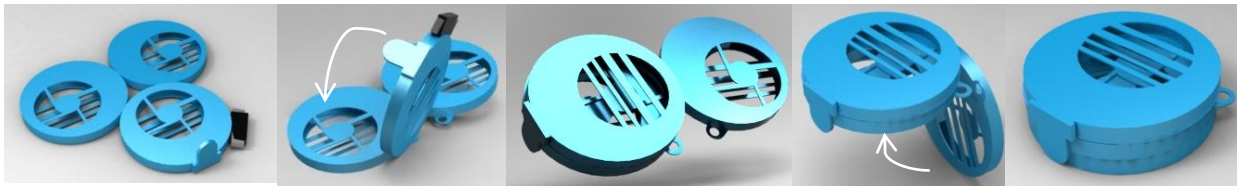
Design Brief: To Design a laptop holder for home and office use

Duration: 12 weeks
Simple Product Design
Software used: Solid Edge

STACK

LAPTOP HOLDER

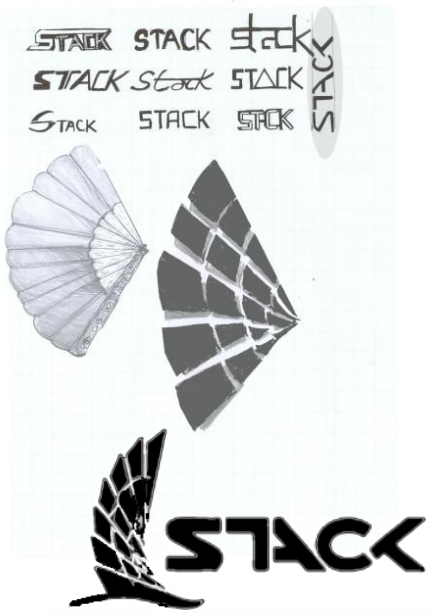
How it works



Handy and easy to use

Stack is a foldable ,easy to use laptop holder
3 cooling fans to sufficiently cool the laptop
Retractable double USB wire

Software used :AutoCad
Solid Edge
Key Shot



STACK

LAPTOP HOLDER

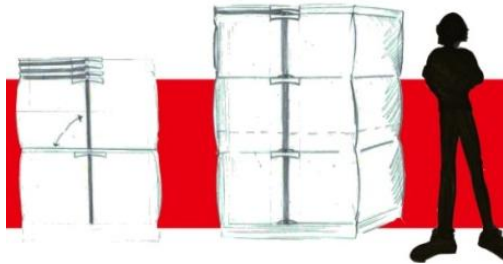


Logo inspiration:
Chinese fan - Stackable linked folds of the fan, Portable
 >> similar to concept of STACK laptop holder

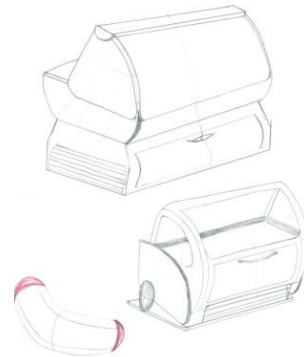
Duration : 1 week
 Packaging and Graphic Design
 Software used : Adobe Illustrator
 Photoshop

SUBZERO

DEEP FREEZER



Collapsible freezer



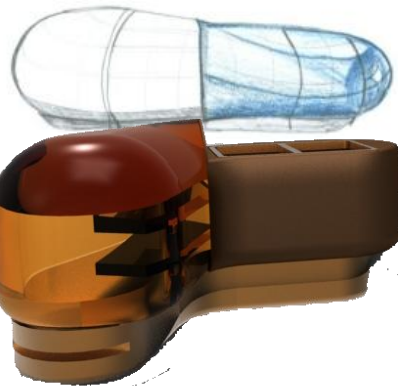
Modifications to existing



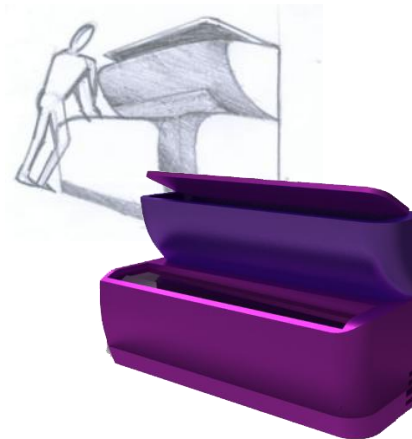
Slide out shelves



Separate section for each item



Transparent ,freezing Display section



2 layer deep freezer

DESIGN PROCESS

•Product study



•Parallel products



•User study



•Problem areas

Boring look
Have to bend ,dig out stuff
Difficulty to look at the things
Manual defrost: tedious task
Difficult to relocate items

Design Brief : To design Deep Freezers for shops

Duration : 20 weeks
Technically complex product
Software used :Solid Edge
Key Shot

SUBZERO

DEEP FREEZER

Final concept



Easy to use and segregate as per user's need



Kids attracted

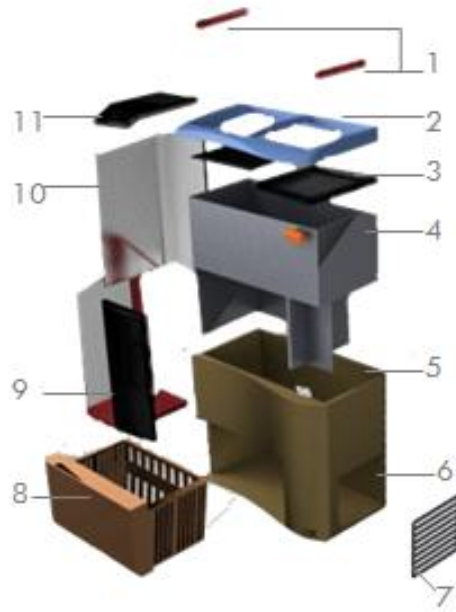
Features :
Lower basket :segregation of food
Transparent display section :lower cooling area

Software used :

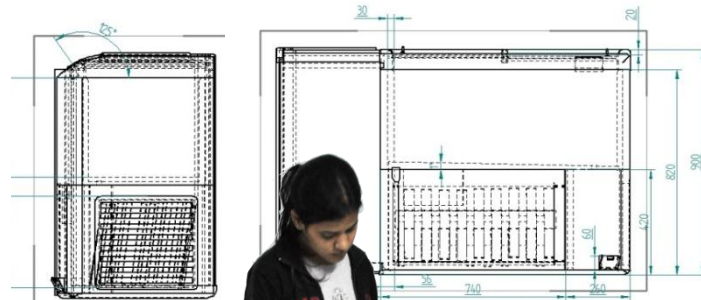
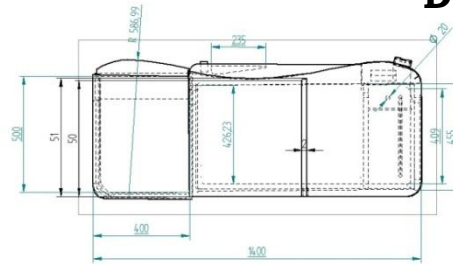
Solid Edge
Key Shot

SUBZERO

DEEP FREEZER



- 1 Sliding handle
- 2 Breaker strip
- 3 Insulated Glass
- 4 Inner AL box
- 5 Plastic casing
- 6 Machine section
- 7 Grill
- 8 Lower basket
- 9 Plastic rim: transparent section
- 10 Transparent glass section side
- 11 Transparent section Glass cover



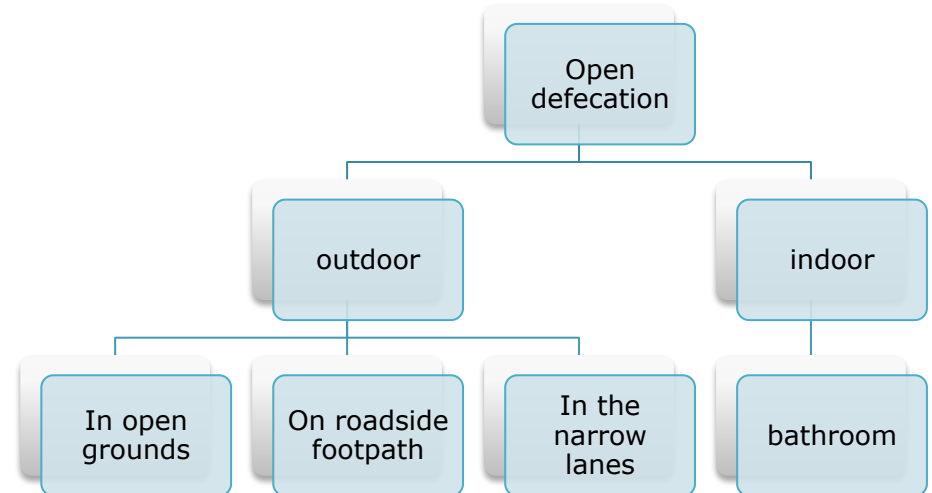
Exploded view and engineering drawing of the final concept

Software used : AutoCad
Solid Edge
Key Shot

SULABH

Portable Toilets for slum children

Satellite imagery of top view of slum chosen for research



No. of toilet seats for children: 8 (average 1 per 88 children) thus most children are defecating in the open

Open Defecation

Design Brief : to design a cheap and portable toilet for slum children.

Duration : 12 weeks
System design

- User study

observation	intent	problem
when mothers are busy or its late at night children (3 – 12) defecate in the bathrooms	Children are too young to have a routine toilet habit.	even if toilets in each home were preferable, the size of most homes made this unrealistic
The children use water which is stored inside the house to clean themselves	Easily available	Defecation must be thrown as the bathrooms have no separation from rest of the house.
They defecate on newspapers or polythene packets	Cheap and convenient	Newspaper becomes soggy If the children urinate.
At night it is thrown in the dustbin and later in the morning in the garbage area by parents	Easy method of disposal	Plastic packets if used harms the environment as it is non biodegradable



Concept



Disposal system



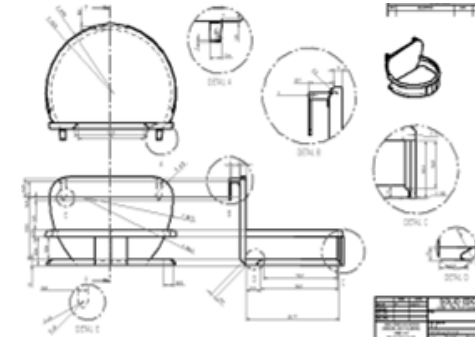
Packet made of polyethylene, pigments and a starch-based pro-oxidant additive 14x21" and 25 micron thickness

Toilet Frame: Made of 6mm mild steel; low cost; durable

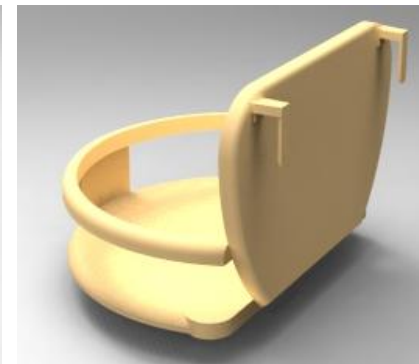
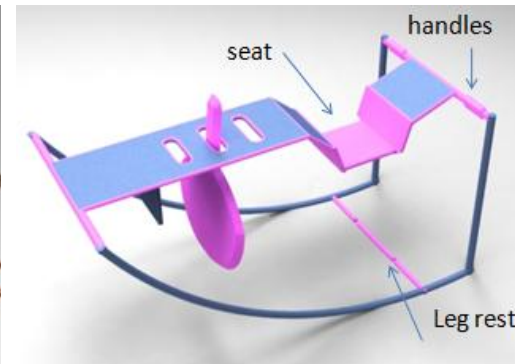
A biodegradable plastic bag (inner urea lining : converts human waste into a fertilizer) is placed on a portable Indian style toilet. The toilet can be used by adults also by placing bricks on its sides .

ROCKING SCOOP

CHILDREN HIGH CHAIR



Portable seating



High chair design (for +6 months to 5 years)
Portable seating which can be fitted even on different chairs
Can be inverted, used as a rocking toy when the child grows

Duration : 2 weeks
Furniture design



GREEN T

Flavor variants :
rose,orange,lemon,mint



CUBE STRUCTURE:
Easy to stack
Side easily identifies the flavor
Structural packaging: no transfer for preservation

Duration : 2 weeks
Packaging design

MYSTERIES OF SAND



Outer body of sphinx made with carton boxes and painted

Event manager for college fest
Combined games of table trouble and treasure hunt with an Egyptian theme
Participants had to crawl under tables and find their respective team's treasure

Duration : 2 weeks

MATERIAL SIMULATION

Thermocol



Paper



Mount board



MDF



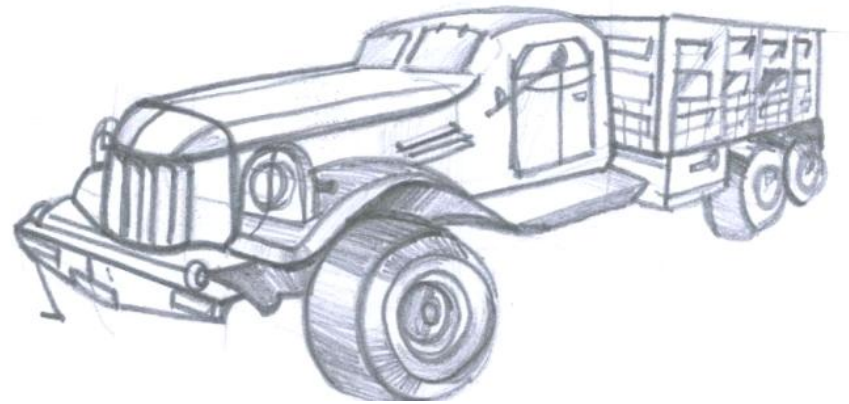
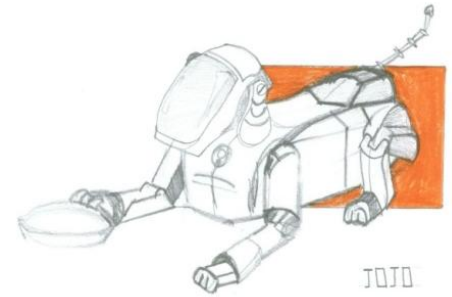
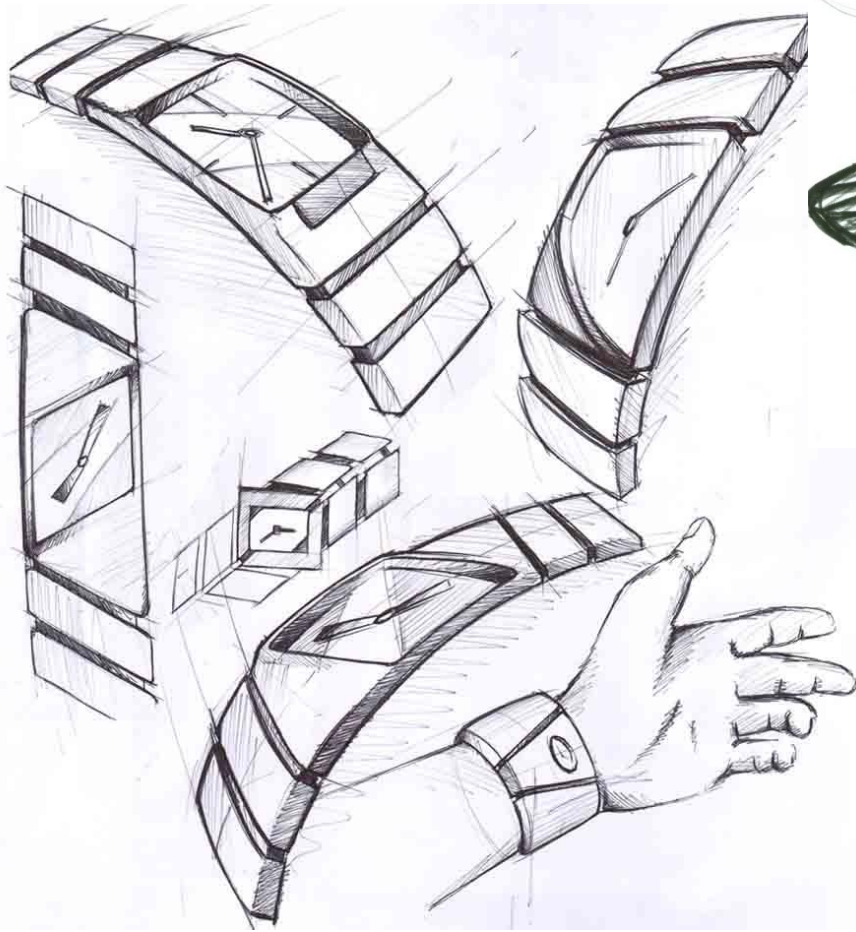
POP



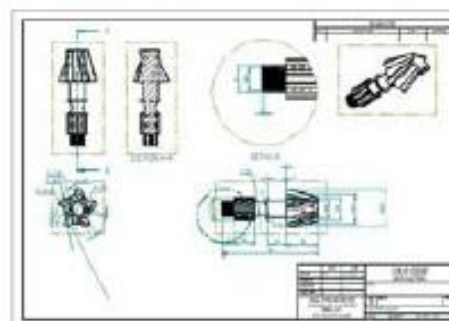
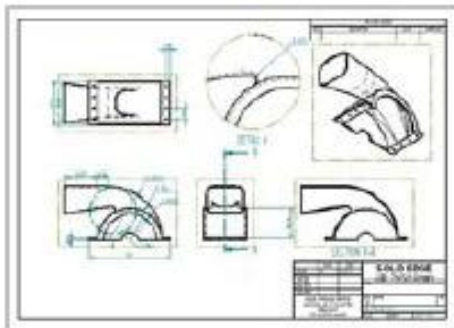
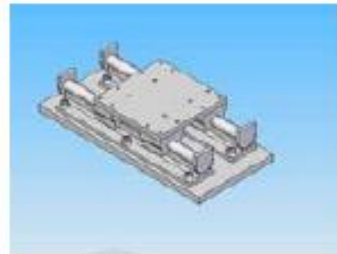
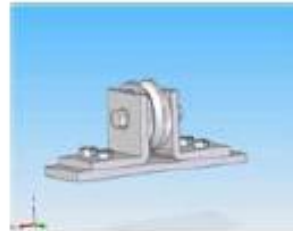
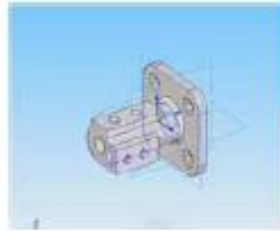
>> Imitation of original
My exploration in different materials mentioned above

Duration : 12 weeks

SKETCHING



SOFTWARE SKILLS



Software used Solid Edge, Keyshot and Autocad



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EDUCATION

Pursuing 4th year in PRODUCT DESIGN at Symbiosis Institute of Design ,
Pune

Class 12th from Loreto Convent with 83% (ISC BOARD)

Class 10th from St. Agnes's Loreto Day with 80% (ICSE BOARD)

CORE COMPETANCE

Conceptualization skills

Team worker

Traditional / Digital representation skills

Workshop skills

SOFTWARES

SOLID EDGE

AUTOCAD

KEYSHOT, HYPERSHOT

ADOBE PHOTOSHOP, ILLUSTRATOR, INDESIGN, PREMIERE

INTEREST

Consumer Electronics, White goods, Furniture, New Technologies,
Packaging design

Thank you

For your precious time