DESIGN PORTFOLIO

Bharat Sarkar

+917275966808 bharatsarkarw@gmail.co **BHARAT SARKAR**

Hi, I am studying design at IIT Kanpur, India. I believe in Human Centered Design and its use in problem solving and enhancing User interaction and User Experience. I like to think of next step of human engagement and development, and thus design products and services around it.

MASTER OF DESIGN, IIT KANPUR

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EDUCATION

High School
Higher Second
BE(Mechanical)
M.Des(Product

2007: CBSE 2011: AICTE 2012:IIT, Kanpur

80.13% 9.75 C

EXPERIENCE

Engineer: Internship: Internship: Industrial 1

Industrial Train Minor Academi 2012: T

010: Diesel Loco Shed, Itar: 010: AutoCAD, CRISP, Bho 2 wee

SKILLS

2D soft
Photos

opv CS6 r CS6 ook Pro

3D software: Autodesk 3DS-MAX

H

ner Skills: sign thinking, Human Centered Design, Engineering Desig ttion, User research, Prototyping, Testing

WORK EXPERIENCE

ERGO-DESIGN, BANGALORE



INTERNSHIP

Organization: ERGO-DESIGN

City: Bangalore, India Duration: May to July 2013

I worked in a team under the mentorship of a senior designer, for a client based in Coimbatore and did the interior layout design and Industrial Design of an Industrial Air Compressor. During this period, not only I could hone my skills and understanding of the design process but I also experienced real world design and how it relates to the complete product development process.

LIVE PROJECTS WITH FIRMS



HINDUSTAN UNILEVER LTD.

Design and development of a consumer product in collaboration with the firm is in progress.

*Details cannot be disclosed.

MAHINDRA RESEARCH VALLEY, CHENNAI

Employer: MAHINDRA AND MAHINDRA LTD.

Designation: Graduate Engineer Trainee Team: Drive Away Chassis, Technology **Product Development Systems** Duration: Aug 2011- Jun 2012



As a part of Mahindra Product Role: Development System, I worked in a team in Chassis and Suspension System at vehicle level and learned the various methodology and tools like Catia used in designing the suspension of MUVs and SUVs. Thus I had an experience of looking at product development from the perspective of industries and product manufacturers.

TYCKA DESIGN, BANGALORE



INTERNSHIP

Organization: TYCKA DESIGN

City: Bangalore, India Duration: December 2012

As a part of the product design team I worked in collaboration on a Liquid Toilet Dispensing product design and development for Hindustan Unilever Ltd. as the client. I had an experience of the product design process starting from understanding problem statement and client interactions. While working with professionals on live project I got to learn the design approach and Industry practice.

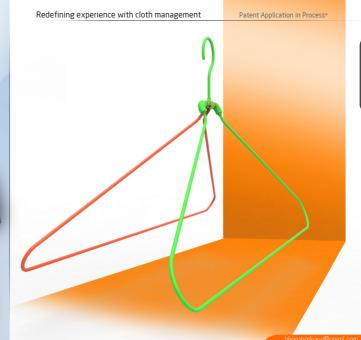
DRAIR

Your Cloth Manager

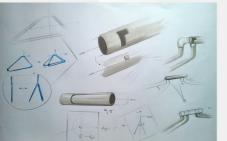




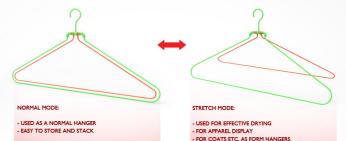
Aesthetics worth display



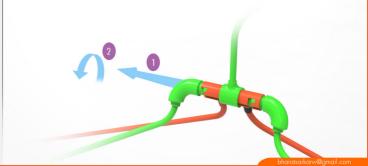




Redefining experience with cloth management



- FOR TWO SEPARATE CLOTHES AS WELL



BICYCLE DESIGN

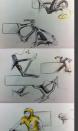
Commuting solutions for Young professionals

As a part of a bicycle design workshop conducted by TI Cycles, in a team of four we came up different concepts and then went on to make prototypes of a selected few.



UNDERSTANDING BY DOING: TASK ANALYSIS







Concept I:

A handle that changes with the changing roles of a commuter from office to adventure



INNOVATIVE PACKAGING

Innovative Cardboard Packaging Concepts



The development journey through Research, Ideation, Implementation and Iteration.





Live project with DS Smith Packaging, at TED MINT 2013, Sweden

CONCEPT 1



PROBLEM BRIEF: The edges and corners are more prone to damage and hence need additional strength.

DESIGN FEATURES:

Environment friendly

Enhanced Protection on corners and edges
Only one material used
Easy to manufacture
Cost Effective

The idea is inspired from origami and hence uses only folds to furnish 6 layers of cardboard at corners and three layers at the edges with negligible wastage.

DEVELOPMENT OF CONCEPTS THROUGH THE DESIGN PROCESS

IDEATION

CONCEPT DEVELOPMENT

PROTOTYPING

TESTING







FLAT PACKAGING

Innovative Cardboard Packaging Concepts



EXHIBITION



Live project with DS Smith Packaging, at TED MINT 2013 Sweden

CONCEPT 2

DESIGN FEATURES:

Scalable design Inspired from the folds of Origami Only one material used (cardboard) Easy to manufacture Cost effective Environment friendly



This concept primarily deals with the issue of scalability. The packaging can be sent as a single sheet of cardboard with no wastage and the same sheet can be folded into packages of different sizes according to the product.





CONCEPT 3

DESIGN FEATURES:

Protection on corners and edges Inspired from clothes Easy to manufacture Cost effective

In this concept the packaging is made out of one layer of cardboard with another layer of EPS in shredded form only at areas which needs more protection. The packaging can be prepared by applying glue at the required area and then applying a layer of EPS over it in shredded form.







ROCKNROLL Set yourself free





ROCK- Recoils the wires/ allows extension to required length



3D Printed Rapid Prototype



Recoil mechism



MECHANISED TREE CLIMBER

Designing products for rural



The job of coconut harvesting is difficult and dangerous

PROTOTYPING AND TESTING



IDEATION AND CONCEPT DEVELOPMENT





STEADY- ADDED SUPPORT BELOW SECURE- SPRING LOADED MECHANISM SAFE- BOTH PIECES SECURED WITH A CABLE



SBI e-Lounge

Public space design

Space design for Minimum space and quick service

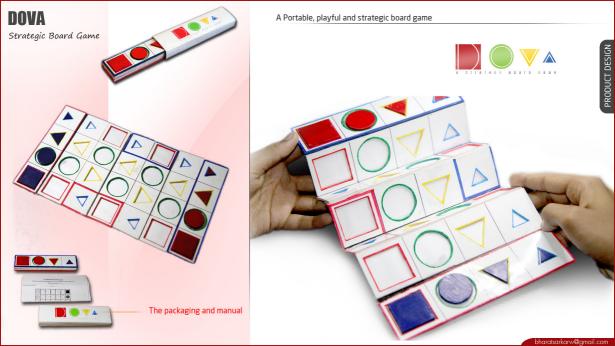
















Video Link: https://www.dropbox.com/s/sjoi79s6z1x4lvq/11.avi



A WHOLE NEW WAY OF USING COSMETICS

HAND CART REDESIGN

Designing products for rural



THE
CONVENTIONAL
CART THOUGH
POPULAR
HAS A BIG
SCOPE OF
IMPROVEMENT

According to the research people come up with make shift arrangements that suggest their needs and requirements and those just need to be converted into features optimally





MODELLING AND RENDERING

DIGITAL DESIGN

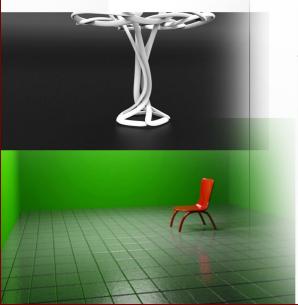


-Autodesk 3ds Max -Luxion Keyshot



MODELLING AND RENDERING

DIGITAL DESIGN





PLAYSTICKS

Engaging and playful application



Ever thought of having the whole screen as your playground? A platform to show creativity and have fun with the interactions between stick figures and you. A platform where your imagination is the key to creativity and fun why can't we have a platform where we can see that in how many interesting was your phone can do wonders with your imagination and thoughts?



The age was design for entertainment purpose, it can really act as a series buster in many situations. The simplicity of the age where the user just jot down something and the lively characters play with it can be fun because it engaged you with something refreshing within that 10-30 seconds of boredom you experience in a situation like waiting for someone, standing in queue poring meetings etc. Using this age in a situation like this can drove away negative throughts out of implatience and irritation experienced by the user.



The technical feasibility has to be determined since no such application has ever reached such levels of interactions with the user drawn sketches, but the technological challenges seem achievable according to current research.



Sometimes we feel out of piace in certain situation for e, g
in the pictures shown. I people were in a serious discussion while
the 3rd person seems like she could not gel well in the
conversation. So she played PLAYSTICK to Pass time and
most importantly emjoyed the moment which could have been
anost importantly emjoyed the moment which could have been
analysed situation new mind cot derigited with positive statistical

MOBILE APP DESIGNED AS PART OF USID- SAMSUNG DESIGN CHALLENGE



Existing characters ready to play with whatever you scribble on the interface.

Draw a simple ball, lines, geometrical shapes, etc on the interface and the characters play with it.

WIREFRAMES













All smart phone users, especially those who would play with their phone when bored.



applications where your creations interact and become a part of the environment.

DO THE DOODLE

A playful and fun application



All smartphone users from the kids to the old age people.



There are no such apps as of now and the very

CONCEPT 2:

DO THE DOODLE



Everyone enjoys doodling and sketching ideas, and all of us like to share ideas with our friends or buddies. Why can't doodle and sketching be collective efforts and thus have anticipation and eagerness as elements of fun among two or more of your close friends. Its possibly more fun when you do things in a group of two or more, and moreover you can have your phone as your companion too when you are alone. IT might even provoke thoughts and bring subjects out of thin air, subjects very abstract and thoughtful. So the result is highly unexpected



- It adds a lot of value and also in a number of ways:
- -The results can be thought provoking -can initiate really good discussions
- -can be very funny and interesting

TECHNICAL The requirement from the graphic and technical aspect is very less EASIBILITY and thus the development of this application is very much feasible.

MOBILE APP DESIGNED AS PART OF USID- SAMSUNG DESIGN CHALLENGE



WIREFRAMES



APP DESIGN

VIRTUALWHITEBOARD

OZCHI 24 hr Design Challenge

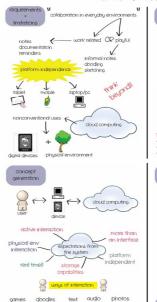
A virtual space on the cloud where multiple people can remotely collaborate and communicate in real time through doodling, scribbling, sharing media, sketching, and playing games



Final Wireframes



virtual whiteboard



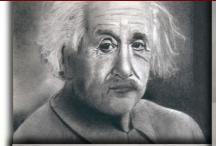


SKETCHING

-Fine arts

ARTS

-Graphite and charcoal





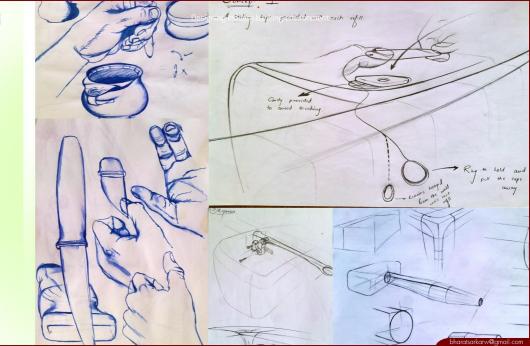




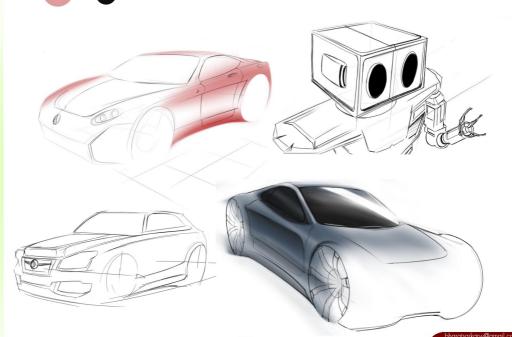
SKETCHING

-Ink sketching -Ideating

Ideation



SKETCHING Digital skecthing



VISUAL COMMUNICATION

logos, posters, photography













Logo concept for RuTAG, IIT Kanpur



LITTERING



AWARENESS WEEK



while you ca

