

industrial design portfolio 2017

## HI! I'M RAFIF.

### **OBJECTIVE**

**internship** in industrial/product design related field for summer 2017

Half or full year **co-op** for fall 2017,2018..

### EXPERIENCE

#### Design Intern at Karsa, Jakarta, Indonesia

A custom and commercial furniture company. July-August 2016

Designed and rendered a collection of teak stools in Solidworks and Rhino that embraces Karsa's Scandinavian aesthetics through research of furniture and support systems.

#### **Certified SolidWorks Modeler**, SEACAD

Technologies Pte Ltd, Singapore June 2016

Attended a certified two-week course for product and mechanical designing in Solidworks. Topics covered included Assembly Modelling, Drawing, and Advanced Part Modelling.

**Art Curator** at Jakarta Cultural Center Art Gallery, Indonesia

May-June 2015

Completed 2 joint art exhibitions in a Local gallery with artists from Indonesia, India, Philipines, Papua, and Laos. Directed, publicized, curated, marketedx, and coordinated both events.

## EDUCATION

#### **Rochester Institute of Technology -**

Industrial Design BFA, Rochester | New York.

Expected graduation May 2019

Dean's List for Spring and Fall 2016

GPA: 3.80

GPA:4.0

#### Gandhi Memorial Int' School -

Int' Baccalaureate Diploma (IBDP), Visual Arts and Commerce | Jakarta, Indonesia. May 2015 Visual Arts Higher Level 6/7

#### **Maryland Institute College of Art -**

Graphic Design Pre-College Programme |
Baltimore, Maryland
May -June 2014
Grade achieved: A

#### **Bali Center for Art and Creativity -**

Summer Painting Programme | Ubud, Bali *May-June 2013* 

Studied line, color theory, and figure under English painter Bruce Sherratt.

## SKILLS

#### Languages

English - Native Bahasa (Indonesian) - Native

#### **Computer skills**

Photoshop Illustrator InDesign SolidWorks Rhino Keyshot SketchUp

#### Technical-Based skills

Laser cutting
Power tools
Plaster molding
Silicone Molding



## THAT'S JUST ME.



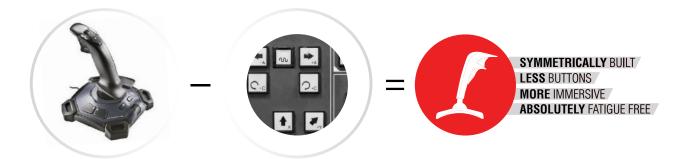
## **CONTENTS**





## LEFT OR RIGHT HAND — IT DOESN'T REALLY MATTER.

Kobra is a joystick that accomodates hands of all sizes while still provides a futuristic feel through accentuated form and organic surface. Symmetrically built, Kobra can be used by both left and right handers without the need to feel awkward due to uncomfortable hand positions. Kobra aims to recreate the standard of existing pointing device.







# THERE IS ALWAYS ROOM FOR IMPROVEMENT.

The joystick should look ..



The joystick should feel ..













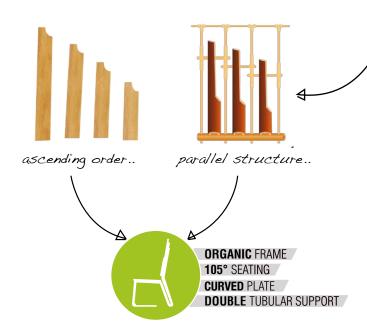
MODERN LIVING AND SEATING
WITH A TOUCH OF TRADITIONAL CLASS.



#### **EXTRA EMPHASIS ON**

#### MODERN AND TRADITIONAL

Since I come from Indonesia, a place where not many Americans are familiar with Indonesian heritage, I wanted to promote and showcase a small piece of my culture. Fortunately, there are wide variety of traditional elements that I can take inspiration from.



#### TRADITIONAL LIFESTYLE









traditional musical instrument played in groups.

theatrical performance with puppet dancers.

WAYANG

BATIK colored designs on textiles made by wax dyeing.

PENDET dance from Bali to purify temples.

Indonesian heritage...

#### MODERN INFLUENCE



SHIVEN 2 relseased by Varsa Home Furnishings



SPLENDID made by American artist Jerry Johnson in 1960

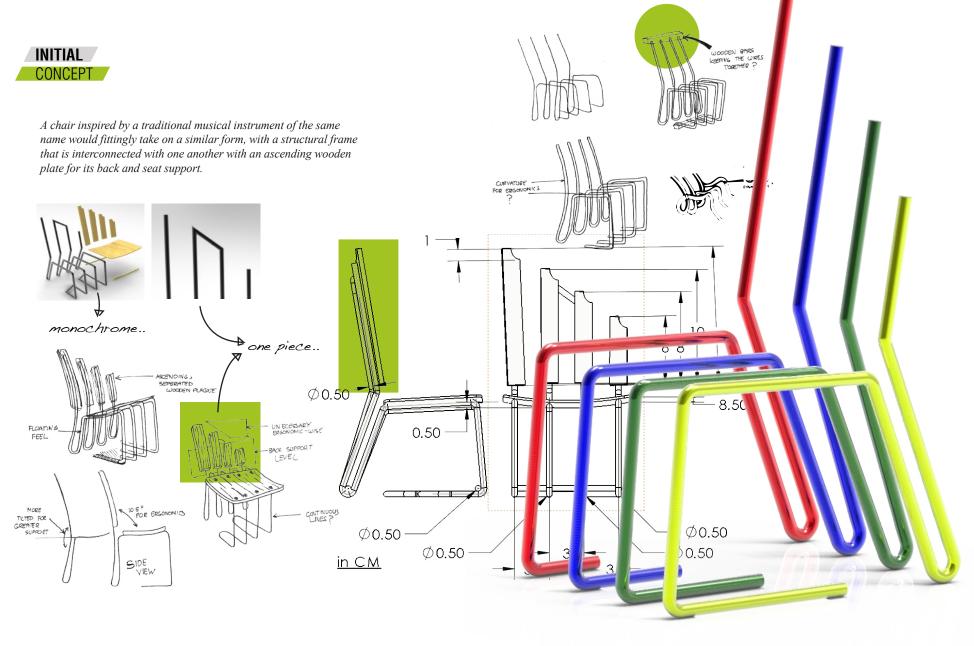


WOOD COMPOSITES coconut-oak used for home flooring.



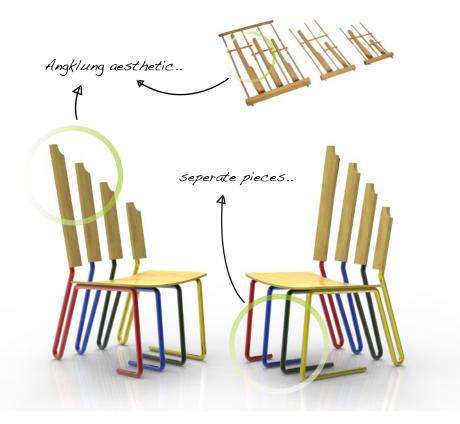
**COPPER PIPING** 2007 piece by Vancouver artist Steven Shearer







The idea of using parallel structure for the frame is further developed using thin strips of wire with foamcore for base/cushion and back support. Small details of the Angklung chair are taking the shape of the traditional instrument as a way to pay homage.













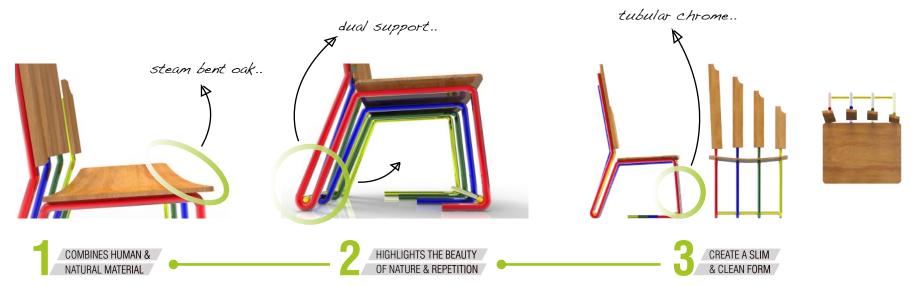


















#### LINE DRYING

#### IT'S GOOD FOR YOU AND THE ENVIRONMENT

#### BUT IT'S A HASSLE! NOBODY WANTS THAT..









and 1000 other great benefits..

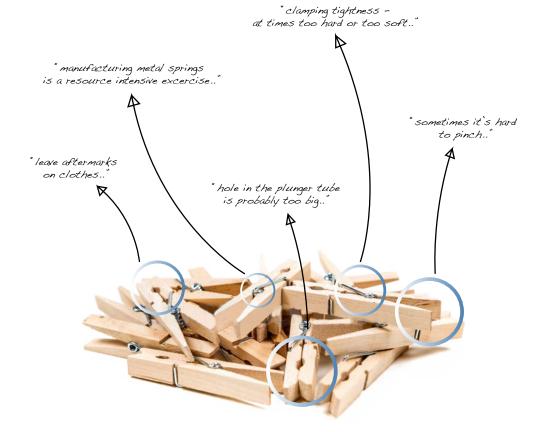






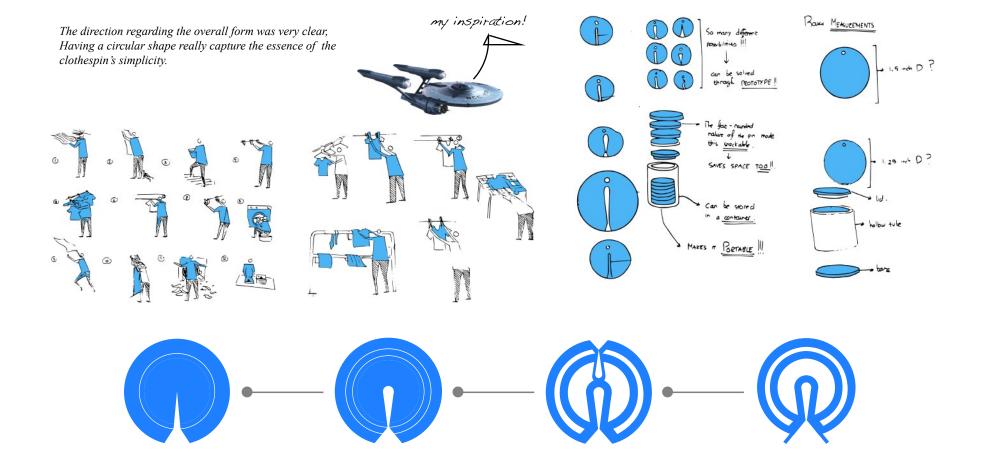








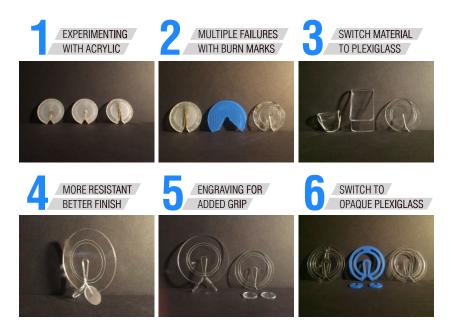






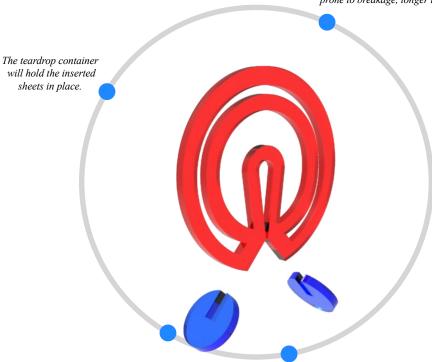
# PHASE PHASE

The use of band saw and heat gun were considered, however laser cut decreases time significantly which allow more prototypes to be made. Creating the right length for the opening requires partly trial and error to make sure the clothes snug right in.





Extruded cut on the inner and outer ring acts as a stress reliever, decreases prone to breakage, longer lifespan.

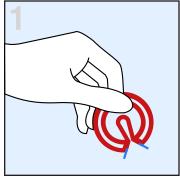


The 'mouth' of halo allows the user to be clumsy as it guides the sheet into the narrow opening.

The acute edge in the opening helps to keep the clothes together.

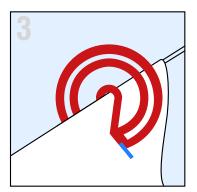


## HOW HALO WORKS



HOLD HALO BETWEEN YOUR THUMB
AND INDEX FINGER

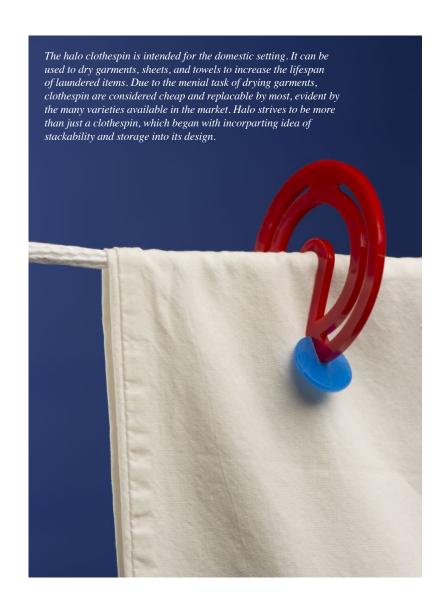
SLIDE HALO INTO YOUR HANGED CLOTHES.
THE CIRCULAR MOUTHS ACT AS GUIDE.



THE TEARDROP CONTAINER HOLDS
THE CLOTHES TOGETHER



THE TWO CIRCULAR MOUTH ALSO ACT
AS BARRIERS TO PREVENT CLOTHES
BEING BLOWN AWAY BY WIND.











# mockreate MODKO // Cat Tree

AN ALL-IN-ONE STOP
FOR YOUR MODERN COMPANION.





#### YOUR CAT'S HAPPINESS,

#### IS YOUR HAPPINESS.

Cats have their own personality and individuality, and they show their happiness in many different ways, just like we do. But more often than not, we are pretty clueless as to what they are feeling. We can analyze their vocal clues, body language, eating habits, and a million other vague cues, but we will never come close to knowing their true sense. Why spend countless hours analysing our pet – when we know the one thing that will make them happy.



And that is why they need their own playgroud.





However, existing cat trees are..





And we certainly want our cat tree to harmonize with the rest of Modko's family of product..





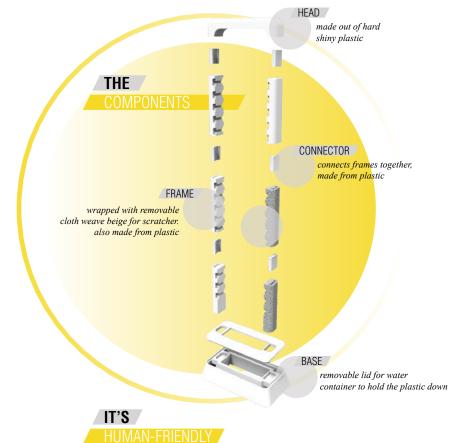


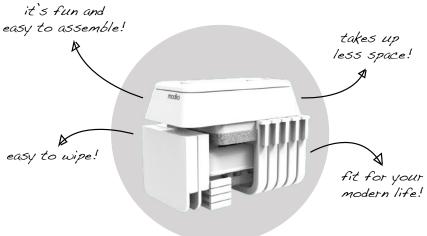
THOUGHTFUL

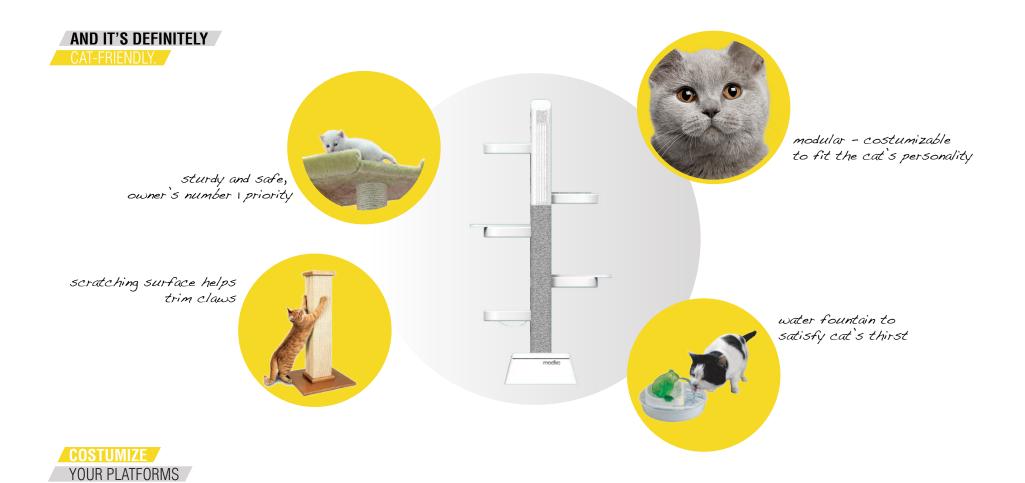
#### **OUR** SOLUTION

We want to make a cat tree that is truly modern, something that blends in blends in well with the rest of Modko's aesthetics. Aside from the importance of appearance, we are also striving for customizability that allows the user to have greater options, something that is not available in the current market.

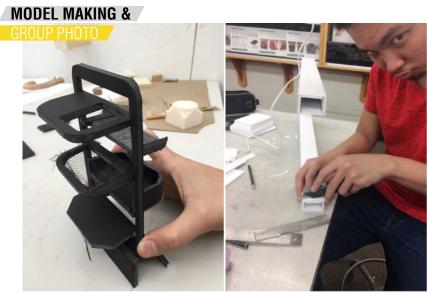


























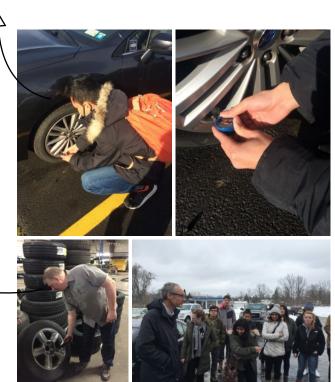


direct contact with persona..

"Working in a team of 4, design a tire pressure gauge for use by automotive technicians."

The gauge project builds on past project experience of hand holding and ease of use while adding more technology. Design will be rooted in primary research through personal experience combined with interview of a mechanic. Idea will be submitted to Matco's 'made by idea program'.

analyzing USer experience..

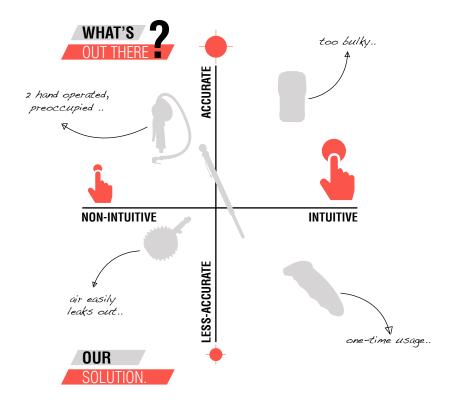




#### MEET TODD.

#### HE'S NOT YOUR AVERAGE MECHANIC.



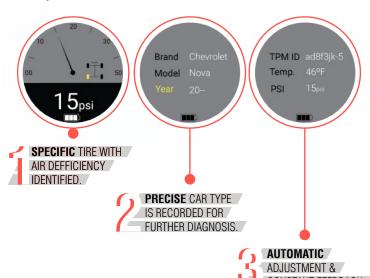


While most people prefer digital over traditional tire gauge due to its ease of use, mechanics in Shamrock Service Center still rely on pen gauges for its reliability on accurate reading. Although the pen gauge is not as reliable as the more technologically advanced digital TPMS, their readings rarely fluctuate (1-2 psi) and they are closer to the exact measurements of tire pressures

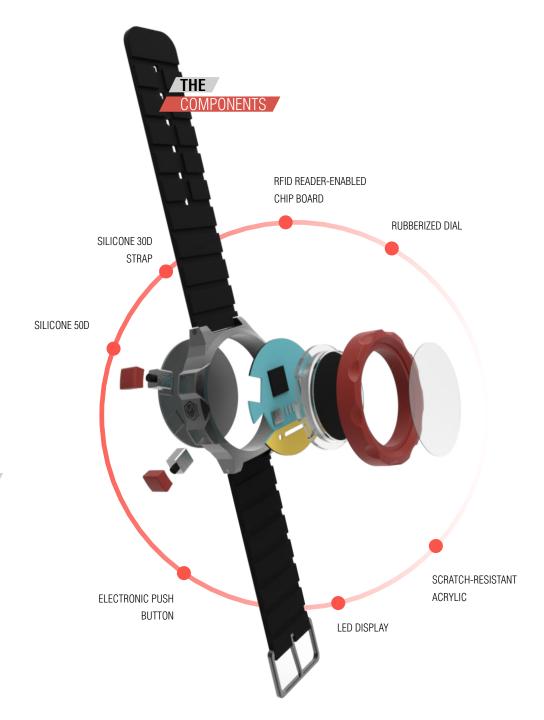


## HOW IT WORKS & USER INTERFACE.

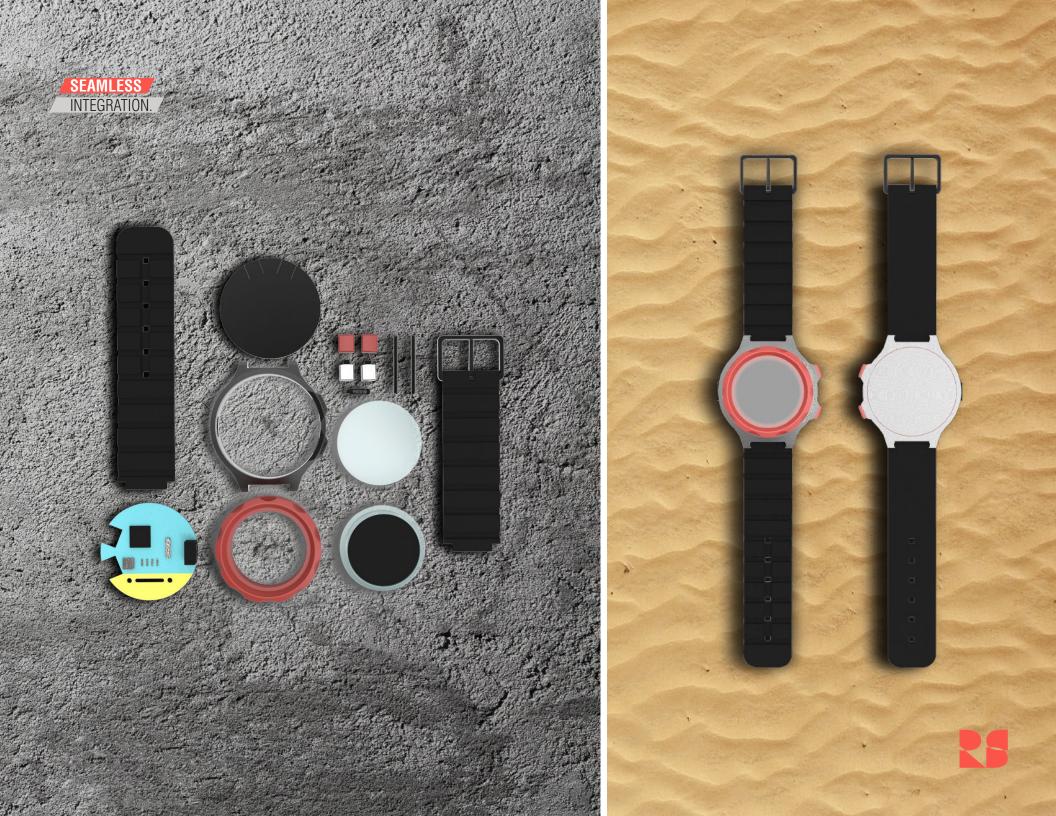
Digital TPMS uses RFID (Radio-Frequency IDentification) to read chips that constantly monitor the pressure of all 4 tires. This way, mechanics are able to simultaneously check tire pressure and work with both of their hands.











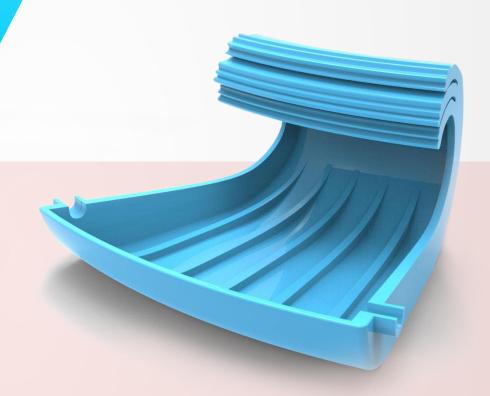




IDEALAB // Assistive Plate
3rd Semester - duration: 3 Days

Rafif - Tanyi - Doug - Maitreyee - Kaining - Mono - Elm

WHO SAYS EATING
HAS TO BE A CHORE?







Cerebral palsy, one of the many major disorders, can affect a person's balance, posture, as well as the ability to perform daily routines, including eating.

#### AGE 20-50







DECREASED STRENGTH

POOR ENDURANCE

#### WE NEED TO FACE

#### THE REALITY.

Their inability to properly eat and drink are also due to other various setbacks. This can affect the behavior, their ability to do things for themselves, to sleep and their social relationships in a deeper context.



HAS A SEVERE VISION IMPAIRMENT











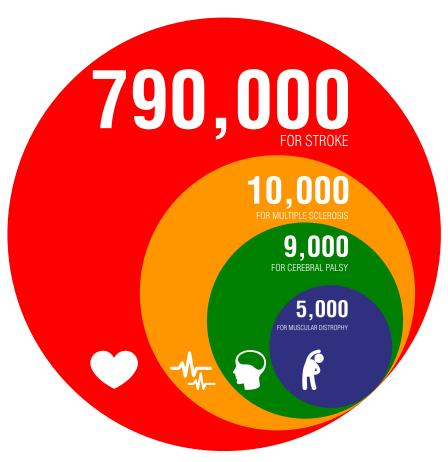




#### THEY ARE A BIG PART

#### OF OUR SOCIETY.

Not only cerebral palsy, the number of people diagnosed each year with illnesses listed below can also cause weakness and limited movements in hands and arms.





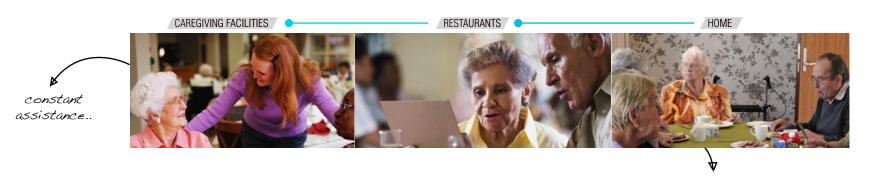
# EXISTING SOLUTIONS

Patients who suffer from Cerebral palsy often have their fine motor skills impacted and as a result many are unable to grab or hold on to cooking and eating utensils. As a result, food on the plate often spill and eventually gets thrown away. This also further creates frustration on the person due to his/her inability to perform simple task.









demand independence ..



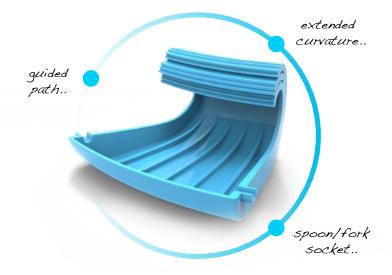
#### **IDEATION**

#### **PROTOTYPE**

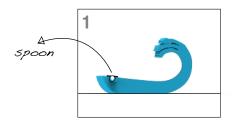


## FINAL DESIGN

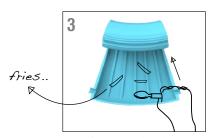
We incorporate existing solution of having the gap border raised with added features of our own.



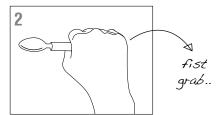
#### HOW IT WORKS



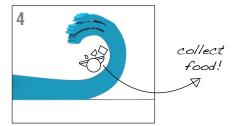
Wave houses the elevated spoon and fork on the bottom corner of the plate. All the user has to do is grab them with both hands.



Linear frame strips along the Wave help the user push down the spoon to minimize over-control which can cause him/her to lose balance.



The user then grabs the spoon with a clenched fist for greater control. Wave encourages user to perform familiar action with more efficiency.



Rolling inclanation of Wave will collect food as the pieces slowly roll over where the 'wave' ends.









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