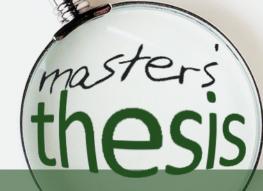


# master in DESIGN 2011



Lavarrello by CANDYGROUP



Master Thesis, November 2011

Brief Title\_ Lavastoviglie (Lavarrello) Project Leader\_ Marco Bonetto Project Assistant\_ Lorenza D'Agostino Author\_ Arush Baluja



Framework

There has always been a lack of interactive signals in a dishwasher, which allows its users to understand whats going on inside the machine from looking at it from a distance. Hence, consumers are left confused and they always come near the dishwasher to hear or to see whats happening to their utensils and how much time will it take for the dishes to be washed completely.



Framework

towards the floor and we have to bend some time exceeding the limits which our body can resist. Moreover, every basket & tray of each brand has these spikes, shown in the picture to hold the utensils, which has been now continuing fot many years. I wanted to change the way we keep our utensils, which should also make trays look good even when the utensils are kept in the trays.



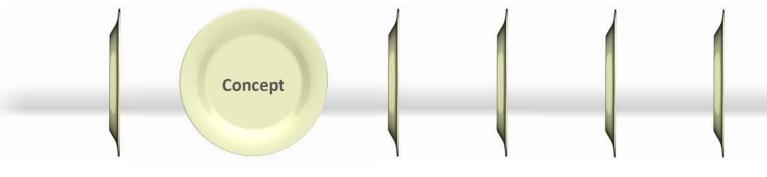
# Loading Dis-comforts



Concept

The foremost inspiration was to develop something portable and easy to load and unload within a house or apartment, as women have always been seen enjoying their daily grocery shopping and taking their babies for a stroll.







effect has always amazed me as an art and the fact that water has a major part to play in washing the dishes, I always wanted to display it somehow. Also, I wanted the face of the machine to look like a piece of an art in itself, when its On





# Tobias Rehberger footbridge

The re were some excerpts which I took from architectural field, as I thought some designs could be of some help in changing the way the dishwashers are being used for years. This Rehberger's footbridge located in germany, was one of the designs which Inspired me a lot.









Concept

Now, I began observing the things where we use to keep other things or use those things as a temporary managed storage. Hence, I found bicycle parking stands may be used for 'parking' our utensils in the dishwasher. Moreover, the way we keep stuff in vending machines is also exemplary.

& vending machines







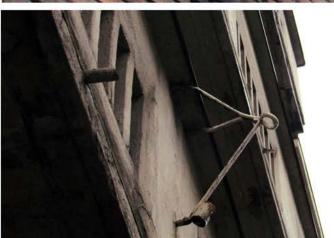


Concept

I noticed these flag hoisters all around milan and other European cities, which was a very common site especially on residential apartments. I observed a striking similarity between flags and wine flutes and other wine glasses, which gave me an idea for glass holders, to be equipped in dishwasher.

# **Flag Hoisters**









Concept

# Roof-Top Tiles

These rooftop asbestos panels and tiles always make a beautiful view when it rains. The idea was to use its inner wire structure, as another tray, so the water could easily flow away, if we keep our kitchen utensils such as forks, spoons, and knives on it.





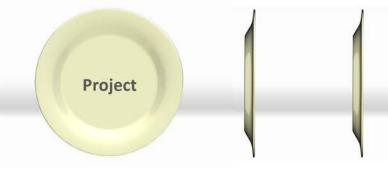












let's open up



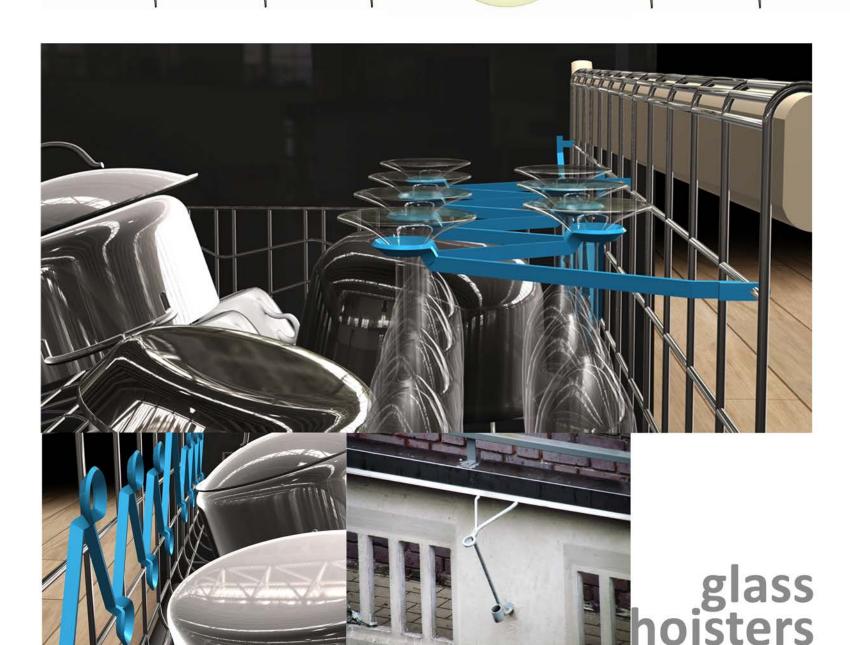
Here, the video and image depicts the interaction of this console, when the dishwasher is washing the dishes. The different actions or stages in side the machine can be displayed by different light behaviours and various colours outside on this interactive console. Interactive Information Console



**Project** 

inspired by the same flag hoisters shown in the previous slides.

The user immediately understands the putpose of these clip like objects, which has a broad opening and a narrow closing to handle the flutes.

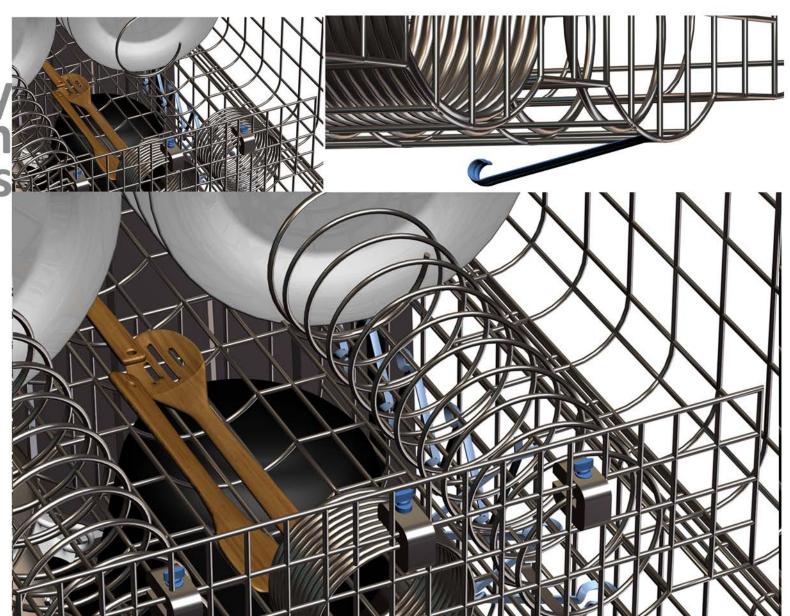


**Project** 



Slinky Spring-Dish Holders

These spring dish holders were majorly inspired by the Rehberger's footbridge and the cycle pods. This spring like structure can be expanded when one needs to put dishes, and can be again contracted to keep other big utensils when there are not enough dishes to wash.

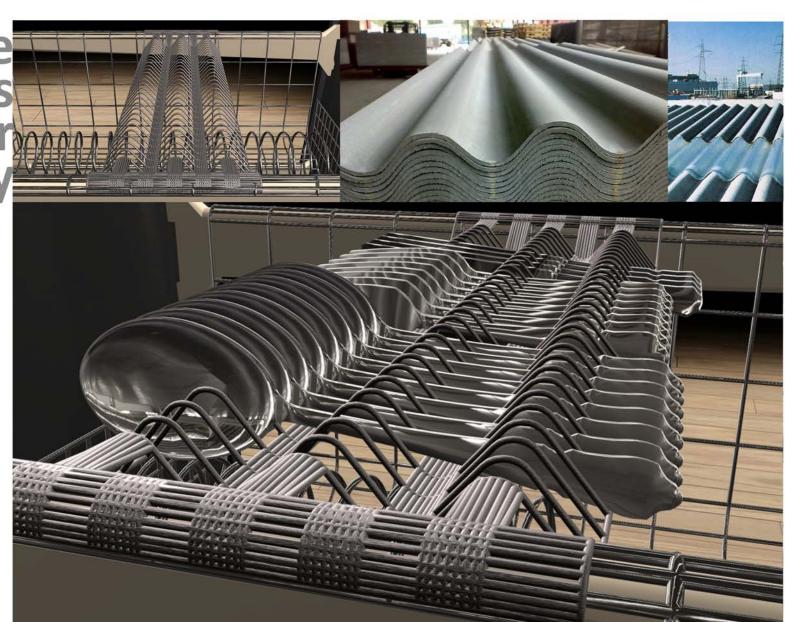


Project

roof-like tiles for cutlery

These cutlery trays are almost like asbestos wave tiles, used for roofing. I observed if we just use the wire frame of these tiles, we could keep our cutlery on it.

These cutlery trays can be increased according to the number of spoons, forks or knives we need to wash at once.









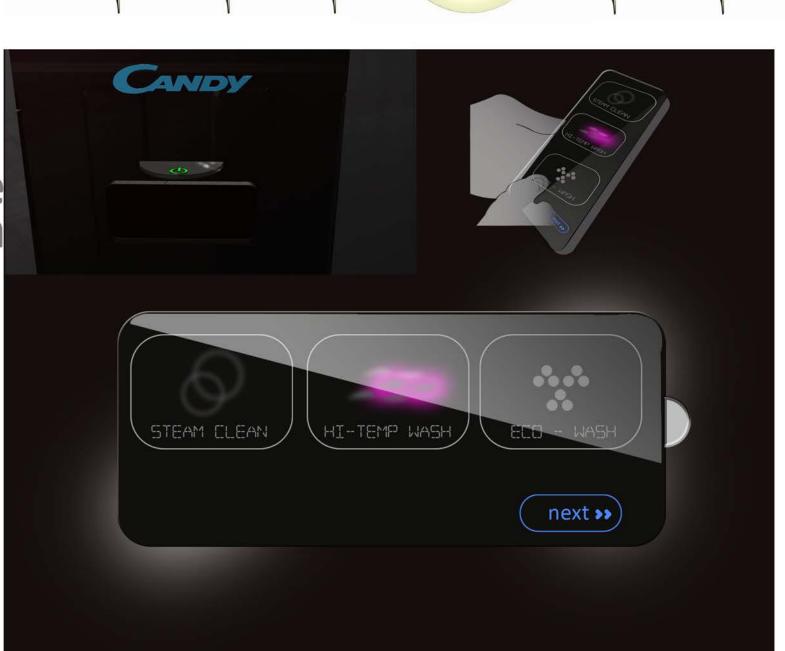


## let's get materialistic



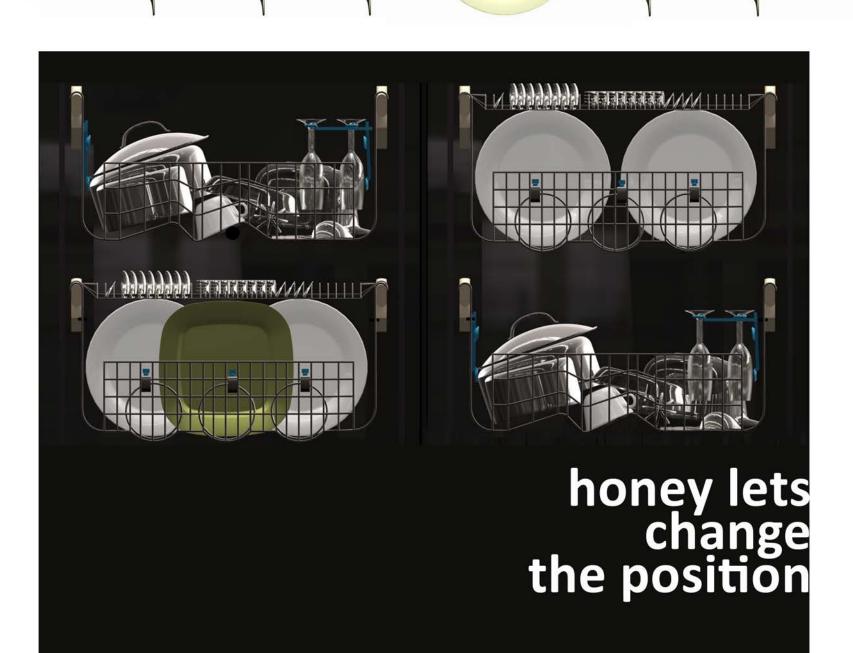
#### Turn me On

Lavarrello is equipped with a LCD touch screen panel on its front, which gives you ample of options to use the washer, and it can be disattached from the machine itself, for you to work at your own comfort and without bending



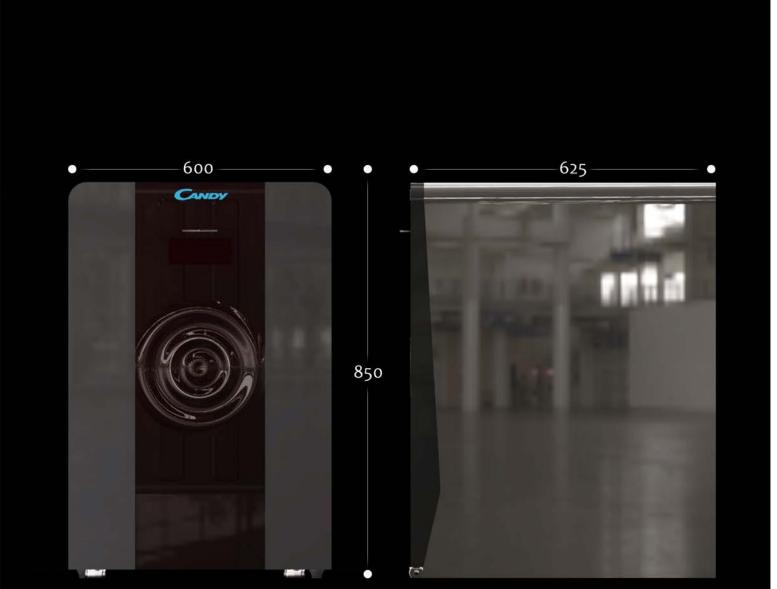
Project

These renderings show the different typologies and orientations acc. to which you can change the positions of the baskets, and of the utensils within a basket.











## lets go inside

been increased, so that the water spray is equally distributed to wash the utensils. Also the fin placement has been changed according to the new trays of the washing cart. The same fin panels have been installed on the both sides to spray a strong water layer on the utensils.

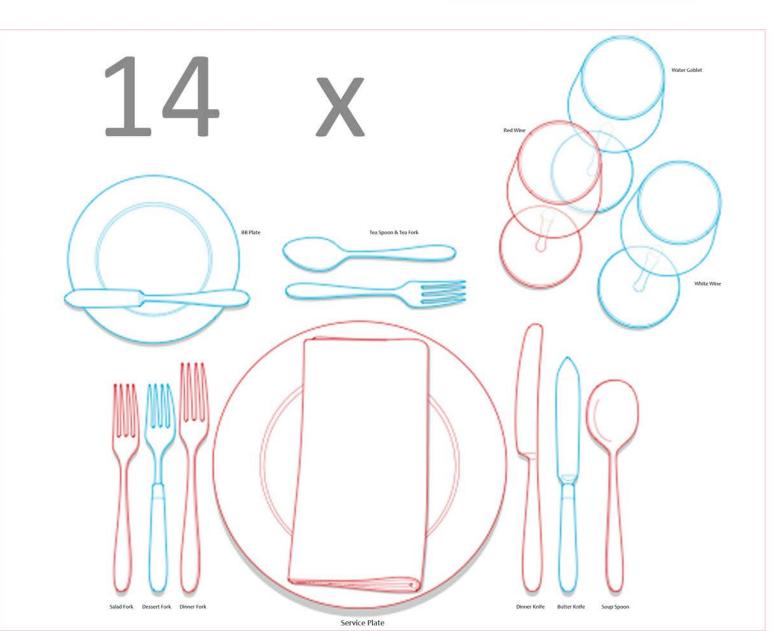






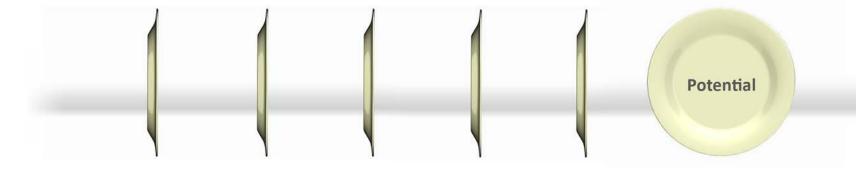
# Capacity: place settings

sured as per the number of utensils it
can hold. And utensils are denoted as
per place setting or table setting
Lavarrello is designed to wash 14
place setting at once. Which makes it
at par with other major brands in the
industry.

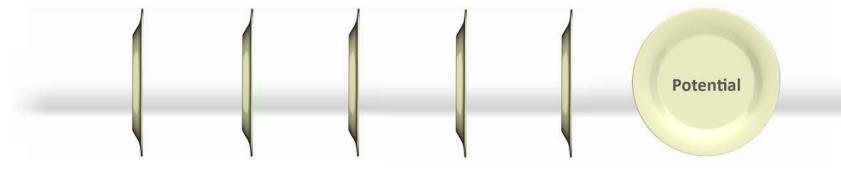




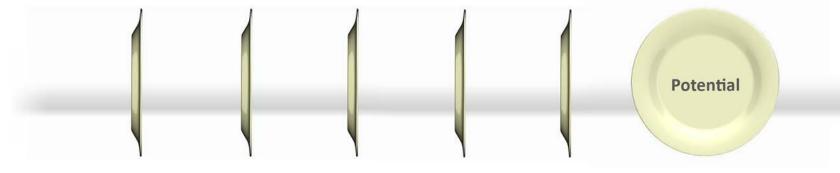












Lavarrello, has been divided in many segments. It explores to solve many problems, and on the other hand it tries to introduce new typologies amongst the existing dishwashers we use today.

It may not be the best solution in each aspect, but still through its various aspects it tries to develop and explore the problems we face and introduce new ways to use the dishwasher, be it interacting with the user, keeping the utensils or using dishwasher as a whole.

# value & potential