

Industrial Design Portfolio

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Water Purifier - São Francisco Project

Global product for South American, Mexican and European markets - Developed at supplier in China and Taiwan - Whirlpool 2008











This Hyper Shot rendering

shows the final product.

Cost reduction and parts optimization were the main requirements.

The target to develop a single design solution for two brands was accomplished.

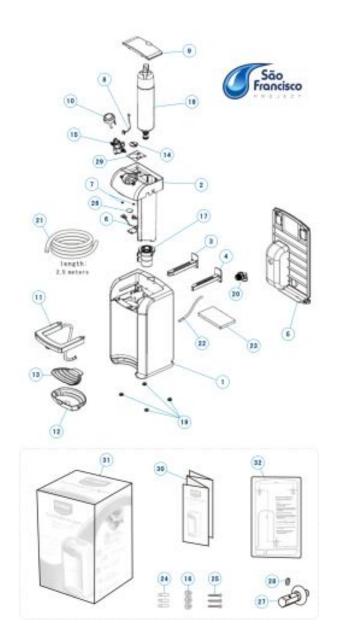
Suitable for Consul and Whirlpool DNA, the differentiation comes out from finish and colors.

The Whole 3D modeling was performed on Pro_engineering simplifying the Interaction with supplier engineers









Product with freezer compartment inside - Whirlpool 2007







The introduction of a refrigerator with a new feature in its segment should stand out from competition. Keeping the cost low, a built-in handle was modeled over the top cap. Surfaces composition deliver a integrated solution for handle and interface. The internal frost free panel was conceived to reinforce the performance perception (system is all about forced ventilation).



Global Product for South America and Europe - Whirlpool 2006





BRASTEMP

A new design theme for the top mount line. Modularity concepts were applied to the interface increasing features combination possibilities over the same base (among them the water dispenser). Low complexity to obtain diverse models.



Development Workflow

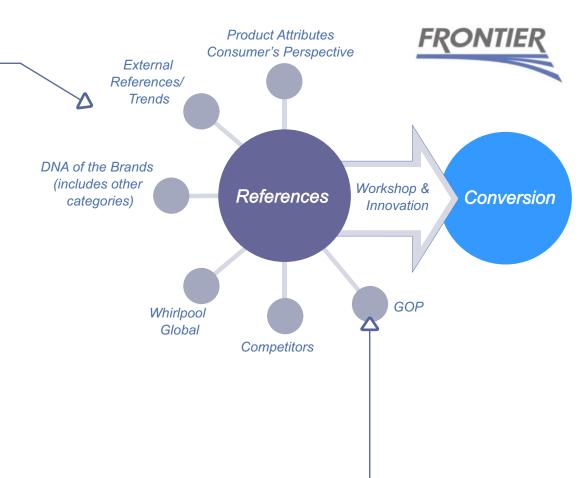
The challenge was to create a new modular platform that could be used by American, Mexican and Brazilian brands allowing different features and brand DNA combinations without compromising each region specific needs.

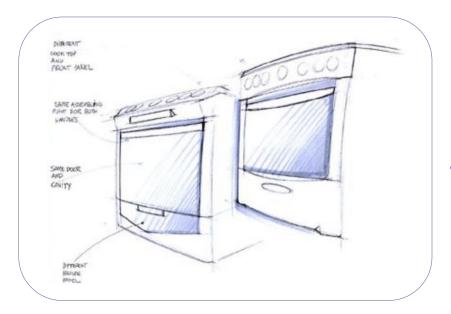








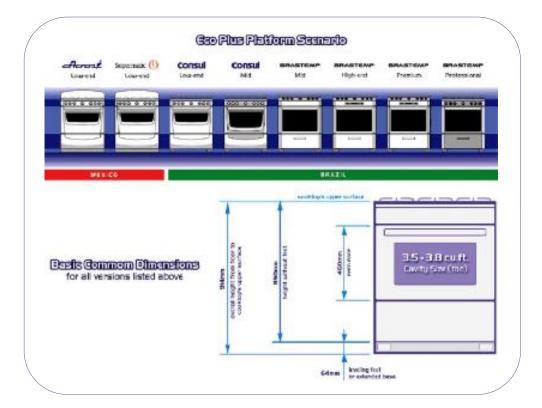




Exploring Global Operational Platform possibilities (Workshop with American and Mexican Industrial Designers).

Early studies

30 inches platform range - Whirlpool 2004





Considering Brazilian and Mexican SKU's.



Frontier Project

30 inches platform range - Whirlpool 2004

Mock-up Preparation (images from Pro-E screen)

Fifteen versions were entirely modeled on Pro-Engineering software for fast prototyping and then sent for consumer research.









Final project adjustments based on research feedback

Working even closer to the Engineering department, all the technical issues were properly addressed in order to preserve the solutions selected by the consumer.

30 inches platform range - Whirlpool 2004



Visualizing product's future derivations



Free lance design development - 2005



The challenge was to deliver a solution that could maximize the deck space yet keeping a high performance appeal.









Portable food preparation solution - Whirlpool 2004

In collaboration with Whirlpool's CIT department (Corporate Innovation and Technology) this outdoor cooking device has been developed delivering the following main benefits:

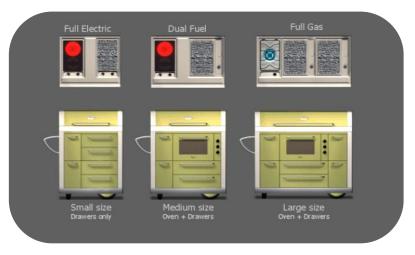
- Removable top for occasional indoor use.
- Modular concept flexibility on product's configuration.
- Space saving solutions when not in use.













24 inches Platform Range - Whirlpool 2002



New Brastemp brand platform wider that any other 4 burner range available on the local market. New and innovative features, an electronic control and a very attractive appeal were the main requirements.







Early studies

Exploring aesthetics and new features. Introducing "knobs-on-the-cooktop" concept.

Jobim Project

24 inches Platform Range - Whirlpool 2002





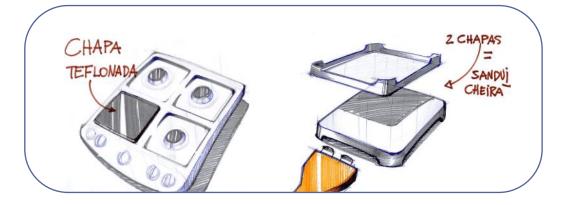
Features Exploration

Some workshops were performed in order to create new and appealing features to increase product's attractiveness.









24 inches Platform Range - Whirlpool 2002



Production version

Image selected for Alias/Wavefront rendering contest.

Brastemp Modular Kitchen

Customized furniture solution to support Brastemp appliances - Whirlpool 2001

Article published on Casa Cor Magazine - São Paulo





BRASTEMP

MODULAR

The main requirement was to develop a modular system that could support any of the current Brastemp kitchen appliances also motivating their sales. This concept should consider stainless steel framing and flexibility also for finish customization.

Module example (exploded view)

The side frame concept allows the composition of modules with different widths, with or without shelves and drawers and specific appliance support according to consumer needs. For the blue parts shown, consumer can also choose the finish to match his kitchen enviroment.

Among the options are: wood, plain color of his choice and the standard stainless steel.



Modularity study

Using only three variations of side frame, all the products can be properly placed considering a wide variety of combos.

Brastemp Modular Kitchen

Customized furniture solution to support Brastemp appliances - Whirlpool 2001





New cooktop concept - Whirlpool 2000

Article published on Brazilian major magazine ISTOÉ on February 2001



TECNOLOGIA

Luxo e mordomia

Condomínio terá piso aquecido e a banheira liga avisando quando o banho está pronto

DARLENE MENDONI

o carninho do trabalho para casa, o morador teletona para de de sua banheira. Pelas teclas do morador selefora para o ramal telefone celular, ele escolhe a temperatura e o quantidade de sais e esolucias que deve sir despejada. Quando a liquaatinge o nivel minimo, a própria buobeira não se deixa transbordar. Ligade volta para o dono da casa o, comuma voz simetizada, informa que o ba- xo do tapete, os preguiçosos podem varnho está pronto. Para são correr o ris- rer até o boccá e despejar a sajotra. Para co de pegar um restriado,o dono da casa: também pode regular o temperatoro do piso. Ainda no busheiro, em vez de fechar a corrina para. guardar sua intimidade, ele só sperta um botão que aciona tema janela inseligente. Ali, uma película opuca recobre a superficie transparente do video como se fosse area tela-

Parece sombo? Não para-quem estiver disposto a desembolisar RS 2 mi-Inões por uma das 12 casas do condomínio que seni lançado esta semana no Morunbi, sa zono sul de São Paulo. Capitaneado por Leonardo Senna, importador dos carros Audi e irmão do

de cristal liquido.

piloto Ayrton, o projeto da I-House (casa inovativa) é um primor em mordomias, "Buscarnes reunir num só lugar todo tipo de tecnologia para o conforto dornástico", explica Senna.

O que mais deve encantar as donasde-casa é o sistema central de sacção de poetra. Adess aspirador de pó com mil peças. Em cada obmodo há um bocal para encaixar a manganira do aspirador. Em vez de esconder o pó debai-



co de Chet Baker no porto. Mas a grande novidade está mesmo na cozinha e é um fogão da Brastemp criado especialmente para o condomimio: Erguido sobre uma placa de seo inos e vidro, ele tem quatro bocas, uma sibus para cortar, picar legumes ou buter carne e unu área para resfriamento de panelus. "O fogão só vai estrar em produção de larga escala se bouver mercado", explica Mario Fionetti, gerente da fabricame Multifras, que são sabe sequer o preço do equipamento.

abrir a porta pão é praciso chave. Basta

encostar o dedo na fechadara com leisor de impressão digital. Assim coreo outras casas ditas inteligentes, em todos os

obreodos há conectores para telefone, TV a cabo e internet em alta velocida-

de. Com 600 metros quadrados de área

construida, a cusa terá sistema eletrôni-

co para controlar vários aparelhos a par-

tir do interruptor de luz. Um memoriza-

dor guardo as preferências de cada mo-

milor. Quem chegar em casa para namorar pode selecionar a programação

que escurece o ambiente e ple un dis-

De acordo com Leonardo Sensa, pelo menos uma das casas estará pronto até o final deste ano. Quem não tiver os RS 2 milhões de sobra poderá apreciar o luxo de fora. As maquetes do condominio ficarão expostas a partir desta semara no shopping center lgusteni, também su zona sul de São Paulo. Só para dar água recbrea. User-friendly designed lay-out considers a support surface for pre-food preparation.





83 STORIES INTOXY

Industrial design reference for future developments - Sharp 1997

Sharp's new design strategy required the creation of concept products for each segment based on local brand positioning to serve as reference for future product development.

For the portable audio segment, after a wide market trends research, it was decided that the future products should have an emotional and innovative appeal.

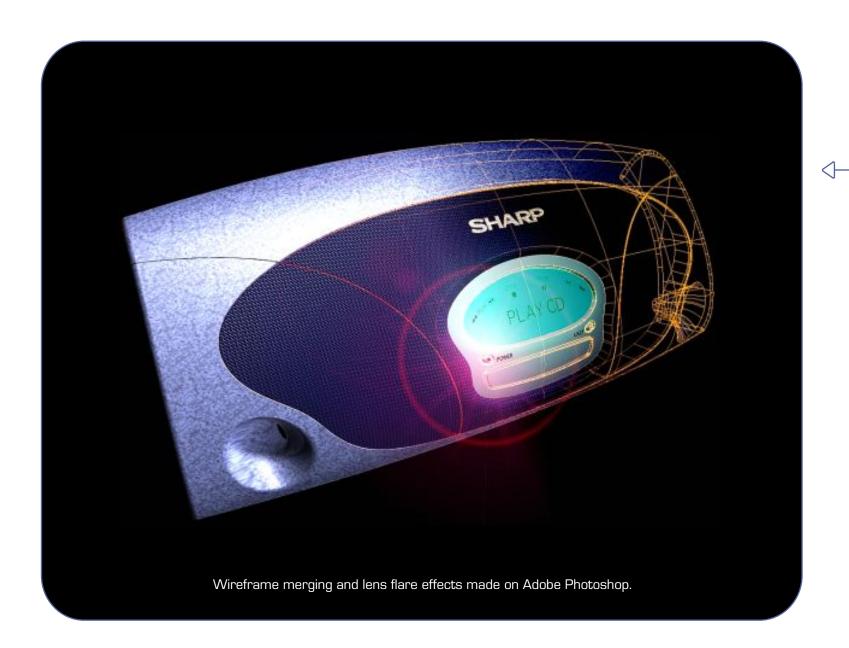






Portable Audio Device Concept

Industrial design reference for future developments - Sharp 1997



Selected version

This Alias Studio rendering shows the selected concept to be used as the reference for all portable audio devices yet to be designed.



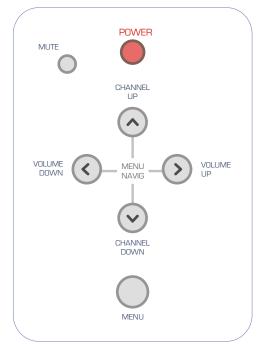
SHARP

All TV users complain about their remote controls. They are too big and It's just too much buttons and information to understand. This project had to deliver a simpler and more user-friendly remote control interface. Even blind people should feel comfortable with it.

Only 7 buttons to operate all functions

Quick access to power, volume and channel controls. All the other functions can be operated through On Screen Display by pressing "MENU".







Ergonomic shape development

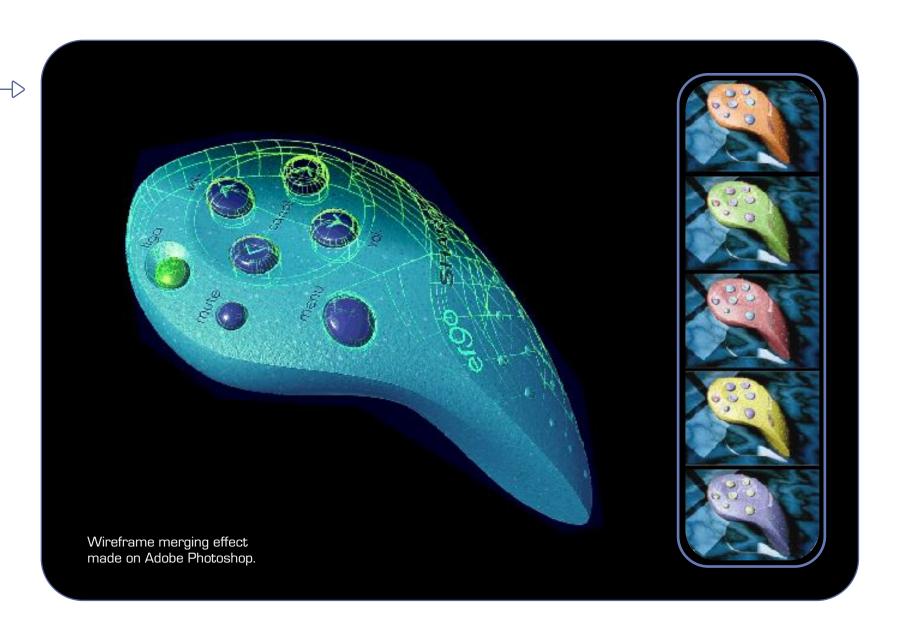
The best fit for the hand and best button positioning could be achieved by using the own hand as a mold, pressing the synthetic clay as if it was the real remote.

Ergonomic remote control - Sharp 1998

Final version

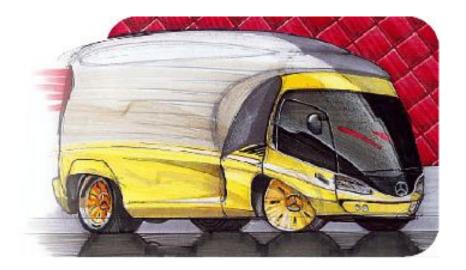
As a result of deep engineering and suppliers analysis over the usability approved concept, this Alias Studio rendering shows the final look of the remote.

The use of colored plastic has been also suggested to make the device stand-out even more from competition.





Comercial vehicle for the tight spaces - Mercedes Benz 1996



As part of the Mercedes
Benz industrial design
team, some solutions
were chosen to take part
of this new concept for
a light truck such as
the sliding door
quite appropriate
for urban use





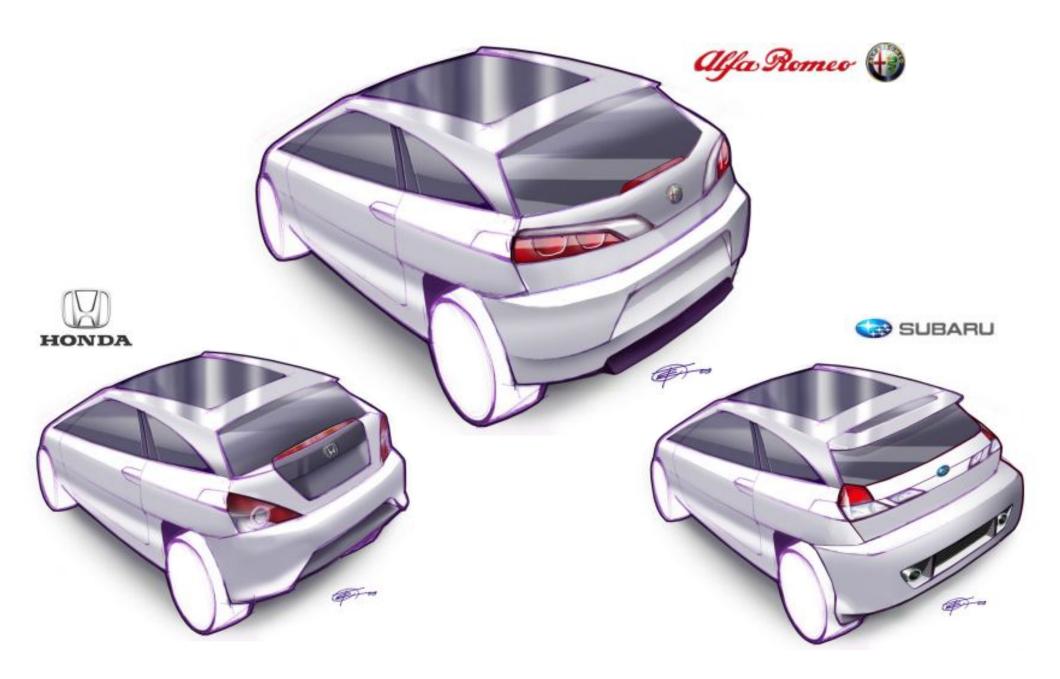


Also developing specific parts of truck's cabin, this seat height adjustment handle and the anti-slip surface for the cabin steps were approved and went into production.





Brand diferenciation over same platform



Creation and 3D Modeling of Motorcycle

Entirely modeled on Pro-Engineering Software







Computer Graphics

Additional examples of 3D modeling and digital illustration

Software: Alias Studio + Adobe Photoshop 3D Modeling, rendering and addition of image effects.





Software: Alias Studio + Adobe Photoshop Wireless audio transmitter - 3D Modeling, rendering and addition of image effects.

Computer Graphics

Additional examples of 3D modeling and digital illustration



Software: Corel Draw + Adobe Photoshop 2D illustration entirely constructed on CorelDraw (every little detail)



Software: Corel Draw + Adobe Photoshop Wireless telephone - 2D illustration constructed on CorelDraw.

Handicraft and Artwork

Creating - Designing - Building - Exploring alternative materials and techniques

Paintwork applied to refrigerator

Three layers of paint were applied to obtain the desired color effect. The graphics were defined with adhesive tape over the first layer (pearlescent beige with blue effect pearls). Than a second layer of silver was applied over the tape. Tape removed, a final layer of clear coat varnish sealed the previous layers. The door handle was made from a brushed aluminum profile.







Kanoa ceiling lamp

Wood sticks attached together with steel cable using an ordinary plastic pipe as ceiling support.

Handicraft and Artwork

Creating - Designing - Building - Exploring alternative materials and techniques

PDA Display - Sharp

Point of sales material built for product release.

Acrylic board with silk-screen printing.





Decorative object

Pieces of wood attached together and hand-painted.

Creating - Designing - Building - Exploring alternative materials and techniques



Painting over MDF board



E.T. Plastic Lamp



PVC Lamp Ordinary plastic pipe deformed and perforated to obtain desired lightning effect.



