

# Одбрани проекти по предметот: Конструирање на производи од пластика

## Генерација 2010/2011 и 2011/2012

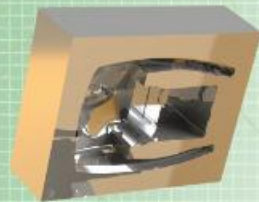
Проф. д-р Татјана Кандикјан

Асс. м-р Иле Мирчески

Проект број 1.

Моделирање на дел и калапно јадро за  
инјекциона пресување во калап

## Core and Cavity design



Core and cavity design of a replica of the structural part of a Logitech computer maus

Core and cavity design of a replica of the bottom housing of a PHILIPS hand mixer



# PLASTIC MOULD DESIGN



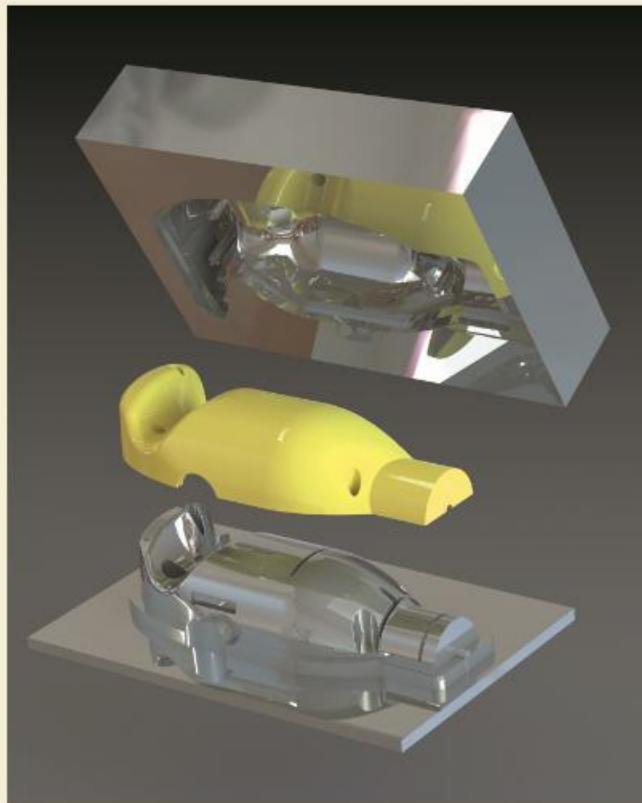
MDC



Skopje, 2012

Professor: Tatjana Kandikjan  
Course: Design with plastics  
Students: Iliana Zdravevska  
Daniela Jamandilovska

## Core and Cavity design for injection molding for small hand housing. phone housing. remote control

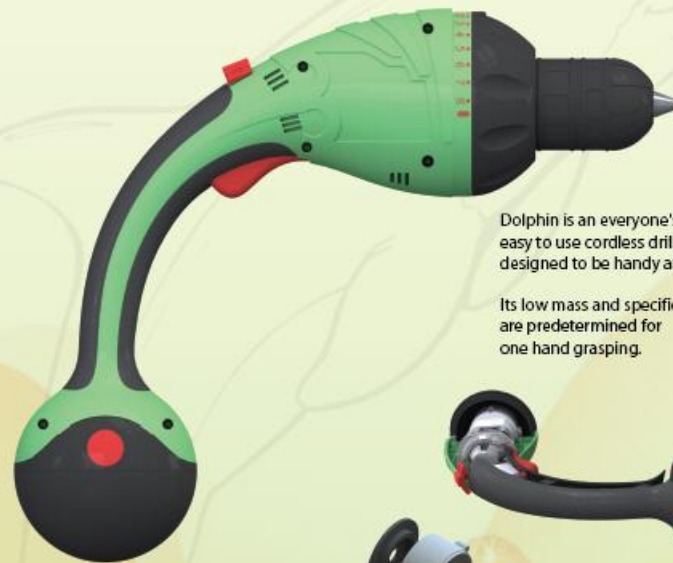


Проект број 2.

Дизајнирање на произво од пластика и  
детално обликување на споевите и  
деловите од куќиштето

# DOLPHIN

CREATIVE POWER DRILL



Dolphin is an everyone's easy to use cordless drill, designed to be handy and mobile.

Its low mass and specific shape are predetermined for one hand grasping.



Winning design at 2012 University Competition in Solidworks for Bulgaria and Macedonia



Skopje 2012

Student: Denkovski Vojislav  
Course: Design with Plastics  
Leader: Prof.Dr. Tatjana Kandikjan, Ass.Mr. Ili Mircheski



# SEA WATER PURIFIER

The sea water purifier is a device that filtrates sea water into pure drinking water. It's main function is to purifire the sea water from salt, bacteria and other, by boiling the sea water with vaporizer, who boils the water and the salt is being devided from the water.

The idea to design such product came from the need for drinking water while visiting long natural beaches.

The shape of this device is inspired by a sea animal, but also by the requirements for ergonomics, balance and low weight.



Third place at 2012 University Competition in Solidworks for Bulgaria and Macedonia



# DELTA

## PORTABLE COOLER

This product is suitable for people who travel and like to have refreshment on the go.

It's compact and eco-friendly.

It can hold up to 2 bottles (placed vertically), 4 cans of soda and a couple of sandwiches.

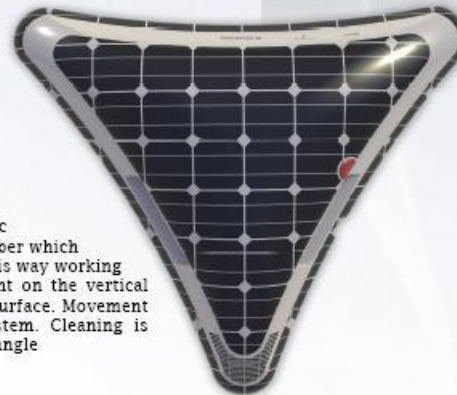
It can be charged from the power outlet in the car or at home.



# Solar Window Cleaner

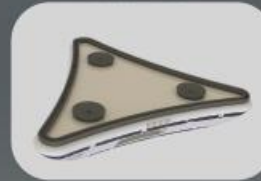


Solar window cleaner is automatic cleaning robot intended for cleaning the exterior from the modernistic glass and metal buildings. Cleaning of these structures is a difficult job and is made by cleaning companies. This device automatically cleans the glass with out requiring any experience of the user to start. In addition solar panels are placed on the cleaner for saving energy



Mainly the device is made from plastic (ABS), but there are materials like rubber which the cleaning surface is made from. His way working is based on two functions, movement on the vertical construction and cleaning the glass surface. Movement is based on vacuum adherence system. Cleaning is made with steamers and a rubber triangle

Bottom view



Steamers



Charging



# Satellite Popcorn machine

This is a multifunctional device for popcorn. Upper part serves to not burst out of the popcorn container but also has a function as a container for popcorn. When you take out the top part, the bottom serves as a hot plate. It has 2 heaters that are activated manually depending on the needs of the user.



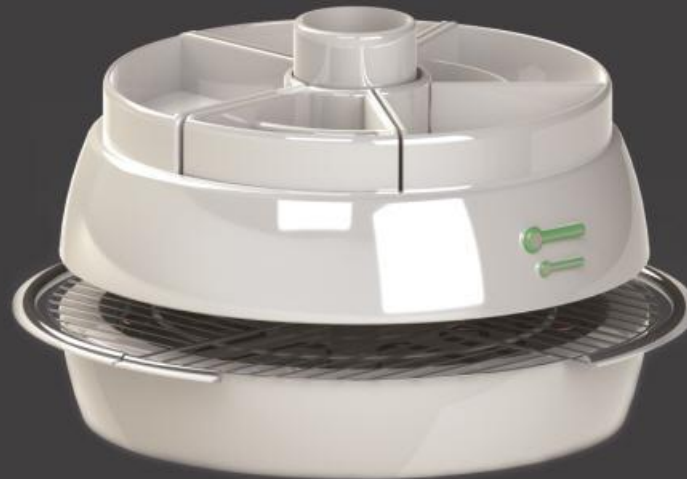
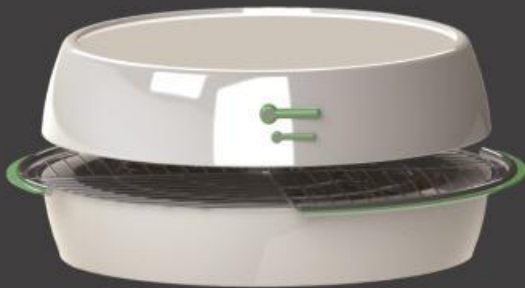
# Round Toaster



The round shape of the toaster makes the toasting of differently shaped bread slices easier.

The grid which can be moved by the user is used for holding the slices while and after being toasted.

The plates on the upper side of the toaster are used for serving sauces.



Skopje 2012

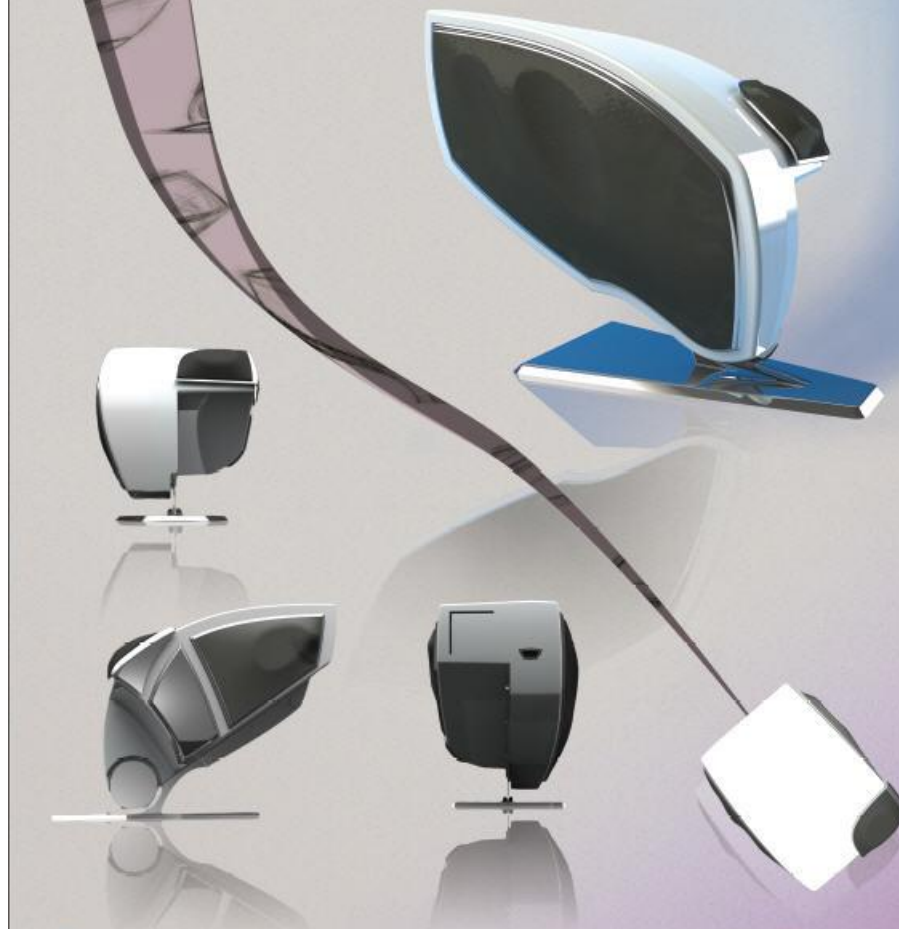
Student: Agnesa Saracini  
Course: Design with plastics  
Leader: Prof. Tatjana Kandikjan

# *P-bug*

paper cutter

This is an innovative tool design for cutting paper

- designed for home and office use
- cutting straight and curved lines
- design for simple handling
- work with rechargeable batteries



Skopje 2012

Student: Ristomanov Slave  
Course: Design with Plastics  
Leaders: Tatjana Kandikjan, Ili Mircheski

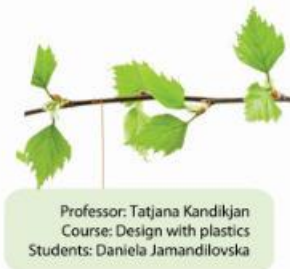


# CAMELLIA

-electric tea kettle-



- modern
- easy to clean
- good for any kind of tea
- heats water to an exact temperature
- safe for children
- no overboiled water



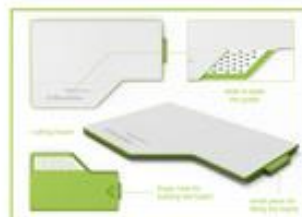
Professor: Tatjana Kandikjan  
Course: Design with plastics  
Students: Daniela Jamandilovska

# Electrolux

## MOBILE KITCHEN



Inspired by notebook computers, Electrolux Mobile Kitchen is a compact design and form that allows users to combine and multitask in small workspaces. It's portability is defined by user needs, whether is outdoor camping or home preparing delicious meals. It's basically a compact 3 in 1 design. The base is a induction cooktop, there is a cutting board and a touchscreen computer with all your recipes which will make your cooking fun and more interactive. With Electrolux Mobile Kitchen you can video call your friends and they can help you and guide you through the cooking. Also you can browse through thousands of recipes on the Internet's largest social cooking network [www.electrolux.com/recipes](http://www.electrolux.com/recipes) a place where you can download for free and compete with your knowledge of cooking. You can watch videos and tutorials on how to become a better cook. Electrolux Mobile Kitchen uses induction cooking technology and has 4 induction rings in different sizes to save extra energy depending on what you're cooking and the size of the pan you need. It also has a large battery to power your cooking when needed.



Dragan Trenchevski  
Design with plastics  
Prof. Tatjana Kandikjan



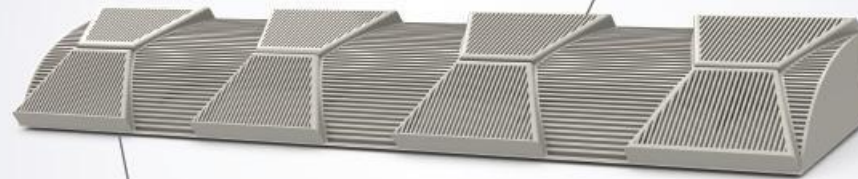


# 4Xal Air purifier

Introducing a brand new design of an air purifier that satisfies all your needs for space, aesthetics and performance.

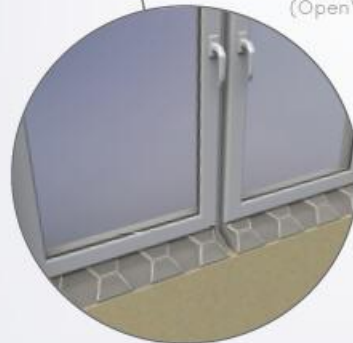
## Particle capturing:

- ifD technology
- no filter replacements
- silent workflow



## Placement:

- under windows  
(OpenWindows Mode)



## About IfD technology

By "Intense field dielectric" mechanism, airborne particles are first given an electrical charge, then passed into a honeycomb of hollow flutes. Encased between rows of flutes are thin electrode sheets, which generate intense electrical fields. Charged particles are pulled to the walls of the flutes, where they stick.





# Peas speaker

*Modern home speakers for every real music fanatic.*



*Separated wireless speaker balls can be used as saraund sistem.*



*Inspared by peas.*



Eco friendly  
Self maintaining  
Tasty spice  
Urban  
Modern

Grow your own spices at your home. Make your meals more delicious and fun.



Skopje 2011

Student: Stefan Aleksikj  
Course: Design with plastics  
Leader: Prof. Tatjana Kandikjan