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Press release

Stockholm, June 30, 2014

Presenting the Electrolux Design Lab 2014 Semi-finalists

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Descriptions of final 35 – Air Purification

1. LIO

Country: Bulgaria

Designer: Alessya Ivanove

University: Technical University of Sofia, Bulgaria

Submission: <http://electroluxdesignlab.com/2014/submission/living-air-flow-laf/>



LIO is a natural and symbiotic experience which cleans air by using purifying living microorganisms in its filter. The living microorganisms consume carbon molecules and thus purify the air in home environments. The concept provides fresh clean air into the interior space, as well as eliminates unpleasant odors and gives an information about the air we breathe in its stylish glass surface. The living air wall allows the consumer to intuitively control the inside air conditions in different rooms and for different needs.



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2. UrbanCONE

Country: Poland

Designer: Michał Pośpiech

University: The Jan Matejko Academy of Fine Arts, Poland

Submission: <http://electroluxdesignlab.com/2014/submission/urbancone/>



UrbanCONE creates healthy microclimates outdoors as it can purify the air around the entire city – as well as in our homes. The device lifts up and flies in the air thanks to ultra light construction and photovoltaic solar panels wings moving according to the resemblance of a jellyfish. The purification is made by exchangeable filters that lie underneath the wings of the cones. UrbanCONE is an automatic, radio-controlled smart device, which clusters in population centers with greater need for filtration.



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3. Hero

Country: Peru

Designer: Fiorella Rios

University: Pontificia Universidad Católica del Perú

Submission: <http://electroluxdesignlab.com/2014/submission/hero/>



HERO combines fun and health in an air purifying concept which allows the entire family to get active and physically play in the fight against bad air quality. The concept consists of three accessories: glasses, gauntlet and rings. The glasses scan the environment for pollutants and the user will be able to eliminate the pollutants by ionization, ozone-generating and UV-C ray process released by muscle movement through the gauntlet and rings. Taking inspiration from gaming activities, you can develop in the air purifying and track your process as the difficulty level increases.



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4. Air & Life

Country: Venezuela

Designer: Eduardo Luis Chacón López

University: Universidad de los Andes ULA, Venezuela

Submission: <http://electroluxdesignlab.com/2014/submission/air-life/>



Air & Life concept condenses the humidity of the air for the nourishment of the plants, thus enabling houseplants be more effective in their natural cleaning process. The device stimulates and promotes green living in indoor environments, helps us take better care of our environments and also helps its users in health care preventing respiratory and allergic diseases. Air & Life is also an indoor air management system by measuring the status of air pollution as well as humidity and state of purification in the entire home.



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5. Bise

Country: India/France

Designer: Antoine Riquiez

University: DSKISD International School Of Design, India

Submission: <http://electroluxdesignlab.com/2014/submission/bise-air-energizer/>



BISE is an air energizer that keeps your bathroom clean and healthy creating a nurturing spa feeling to the most intimate room of your home. It removes all the pollutant coming from hair spray, perfume, deodorant & humidity in order to respect your environment and your basic needs of health. To achieve the experience the user is able to feel the benefit of this product by stretching in front of it and getting a fresh wave of energized air thanks to the algae treatment. BISE is composed of a mesh wall made of a coating of titanium dioxide that breaks down the pollutants to accelerate the filter process and algae filter that absorbs CO₂, purifies wastewater while releasing oxygen and iodine.



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6. Lotus

Country: Turkey

Designer: Fulden Dehneli

University: Middle East Technical University, Turkey

Submission: <http://electroluxdesignlab.com/2014/submission/lotus/>



Lotus is an air purifier with three portable and rechargeable air cleaning balls. While the main body offers a general purification, the balls can be taken anywhere according to need. These three rechargeable balls named Pure Ball, Odor Ball and Humid Ball aim to accomplish specific tasks. Super Plasma Ion Technology generates active hydrogen and oxygen ions which eliminate biological contaminants and active oxygen where they locate. Portable units are useful in situations where localized purification is necessary such as cooking, sleeping and closet cleaning.



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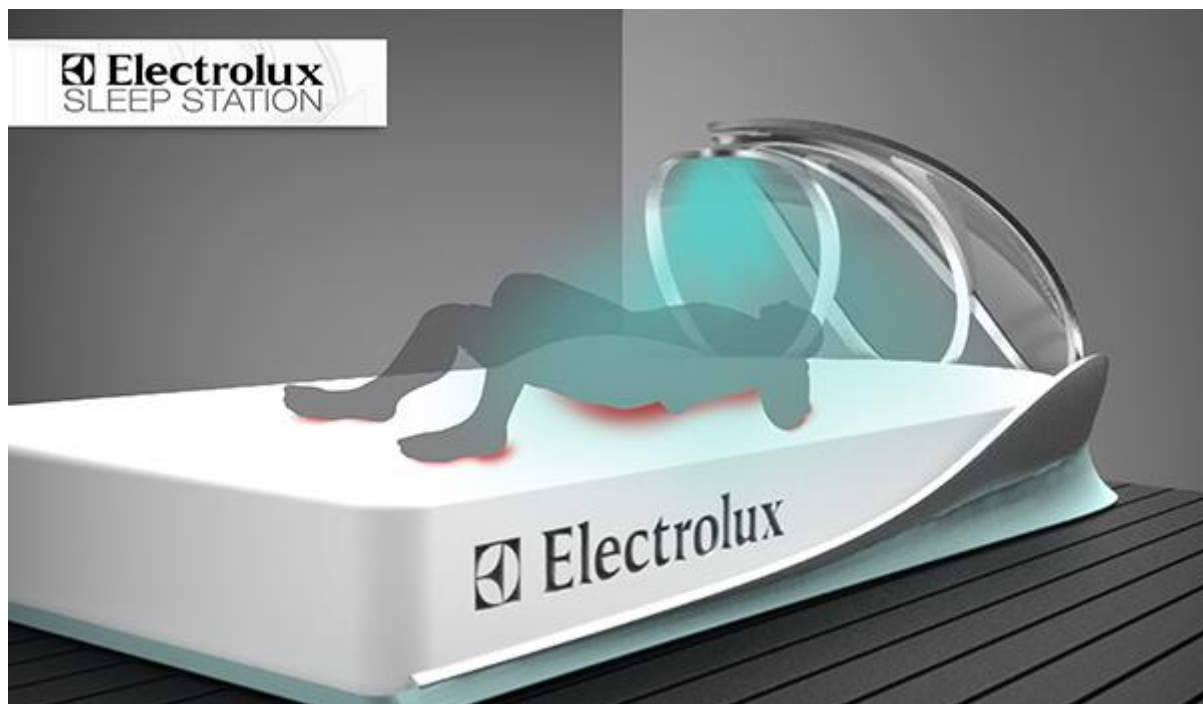
7. Sanitary Sleep Station

Country: United States

Designer: Mackenzie Smith

University: Kendall College of Art and Design, United States

Submission: <http://electroluxdesignlab.com/2014/submission/sanitary-sleep-station/>



Sanitary Sleep Station is an air purification system designed around users' natural sleep tendencies, enabling the very best sleep while also promoting a healthy lifestyle. This highly personalized air purification system reacts in real-time to users' changing body conditions while they sleep. It fully controls the sleeping atmosphere by creating variances in factors such as temperature, humidity levels and learns from the user's sleep patterns, and overall air quality. This sanitary sleep station fosters continuous improvements of the users' sleep quality—as well as their overall well-being—by monitoring a wearable device.



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8. Lotus Flow

Country: Australia

Designer: Rodrigo Capati

University: RMIT University, Australia

Submission: <http://electroluxdesignlab.com/2014/submission/lotus-flow/>



The Lotus Flow is a multi-functioning device providing air purification, dynamic lighting effects and decoration to your home. The petals of Lotus Flow are made of an electroluminescent fabric with a hydrophobic coating that helps draw in dust and pollutants into the core section and cleans with a filtration system containing activated carbon and HEPA filter to help absorb dust and micro pollutants. It also utilizes UV light to help kill bacteria and houses a negative air ionizer to produce fresh clean air. The device checks the air quality of the room working in response to its environment and the room's occupants and can be connected to a home network and smart devices which allows the user to keep track of the air quality of the room.



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9. AMO

Country: Romania

Designer: George Preoteasa

University: The Alternative School For Creative Thinking, Romania

Submission: <http://electroluxdesignlab.com/2014/submission/amo-love-people>



Amo is a smart air purifier that creates a heaven for wellbeing, a two meter wide bubble of clean atmosphere. By combining activated carbon with ionizer purifiers, it absorbs volatile chemicals on a molecular basis and removes dust, germs, smoke, and eliminates mold. This way it keeps the air healthy and can help people who suffer from asthma, allergies and COPD to breathe better. In addition to that it also offers hologram based educational functions for children who suffer from autism, and helps them develop independent living skills.



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10. ORBIS

Country: Brazil

Designer: Guilherme Lopes Pedro

University: UNESP, Brazil

Submission: <http://electroluxdesignlab.com/2014/submission/orbis/>



Orbis is an air purifier inspired by the planetary system. It consists of a main body that adjusts the temperature, light and humidity in a room, while a number of smaller drones use magnetic energy to orbit in the air around it. The small drones filter the air and removes dust and microorganisms using filters with nano purifying fissures.



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11. Air Globe

Country: Taiwan

Designer: Pei-Chih Deng

University: National Taipei University Of Technology., Taiwan, Province Of China

Submission: <http://electroluxdesignlab.com/2014/submission/air-globe>



Air Globe is an air purifier that can simulate the air of a designated area, making sure you can always enjoy the climate of your preference. The globe collects the real-time temperature, humidity, smell and sound and replicates it in your home. Users can spin the virtual globe by hand and move the chosen region under the magnifier-like viewfinder to have that atmosphere simulated.



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12. Petollar

Country: Thailand

Designer: Thanut Chaovakul

University: Silpakorn University, Thailand

Submission: <http://electroluxdesignlab.com/2014/submission/petollar>



Petollar makes it possible for people with allergies to have pets. It consists of one small piece, the Minuze that is attached to the pet, that disperses negative ions in the dirt floating in the air, and one larger piece, the Petollar, that uses suction to remove the impurities. In addition to cleaning the air, Petollar also lets the user locate the pet if it runs off.



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13. EPHEMERIS

Country: France

Designer: Berthome Tiphaine

University: Ecole Nationale Supérieure d'Architecture et du Paysage Bordeaux, France

Submission: <http://electroluxdesignlab.com/2014/submission/ephemeris>



Ephemeris is an invigorating shower of aromatherapy, which transforms your home into a modern sanctuary. The device is attached to the ceiling and it's looks resemble an organic chandelier consisting of translucent silicone. The device has sensors that are connected to the user's mobile phone, which collects physiological data and links it to the surrounding smells. Ephemeris then interacts with the user's device to spread scents and caress the user as they go through its nanofilaments that fall down.



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Descriptions of final 35 – Culinary Enjoyment

14. Little Helper

Country: Portugal

Designer: Rita Moreira

University: Escola Superior De Artes E Design Matosinhos, Portugal

Submission: <http://electroluxdesignlab.com/2014/submission/little-helper/>



The Little Helper is an urban farmer's assistant in ensuring they grow their vegetables with ease. The concept analyzes the seeds that are being used for farming, connects with the user's mobile application and starts to give out instructions how to grow the plant. A device will be placed on the ground with the seed, following its growth and reporting back to the user. The Little Helper comes from an idea that future generations will possibly not know the traditions of farming and need guidance to keep up the interest in nature and growing their own food to remain healthy.



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15. Izotz

Country: Spain

Designer: Iker Legarda Gabiria

University: Mondragon University, Spain

Submission: <http://electroluxdesignlab.com/2014/submission/izotz/>



Izotz is an ecological food storage system which also grows food. The concept conserves food as fresh as the first day over months thanks to effortless and environmentally friendly vacuum technology. The system covers leftover food in a biopolymer spray which leaves no taste or smell on the food and is easy to peel off, can be thrown to biodegradation and used again. Energy consumption is also scaled to minimum as half of the storage is outside the building to make use of the low temperature during winter, it has self-supplied renewable energy from the solar panels used as exterior material.



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16. Surphase

Country: New Zealand/Netherlands

Designer: Daan Hekking

University: University Of Applied Sciences Windesheim, Netherlands

Submission: <http://electroluxdesignlab.com/2014/submission/surphase/>



Surphase is a multi-purpose cooking appliance that can be used to heat and cook or even to cool food. Thanks to its flexible form, the cooking process can be done either on a flat surface like on a hob, or bent to cover a pot and be used as an oven, or even grill your steak by wrapping the surface around the steak. The broad usage of Surface will encourage people to prepare their own food either at home or by bringing the appliance along to a trip.



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17. Garden Pod

Country: Romania

Designer: Ovidiu Subțire

University: WEST University Of Timisoara, Romania

Submission: <http://electroluxdesignlab.com/2014/submission/garden-pod/>



GARDEN POD is a modular green house that is designed to be placed on the building exteriors, making use of the natural energy sources and optimising interior space. The GARDEN POD makes use of organic garbage wasted every day. The user places waste in the green container and after being transformed into compost, it calculates the percentage of nutrients the plants need. From there on, the POD is self sustainable. Using sun light, humidity and compost, it grows nano bionic sprouts into fresh vegetables in a period of 24 hours. Water is gathered from air humidity, precipitations, and if more is needed it can take wasted water from the air conditioning.



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18. SET TO MIMIC

Country: Romania

Designer: Sorina Răsteanu

University: West University Of Timisoara, Romania

Submission: <http://electroluxdesignlab.com/2014/submission/set-to-mimic/>



Set to Mimic is a set of smart kitchenware that recreates tastes and smells of your food to your preference. By placing a noninvasive transparent gel patch with a microchip on your head, the plate and glass communicates wirelessly with your brain, to make you experience a taste or smell from the past by tapping in to your memory. That way you can eat a carrot but have the impression that you're eating an ice cream or a steak, which makes it easier to lead a healthy life.



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19. Yura

Country: Ukraine

Designer: Herman Haydin

University: Kyiv National University Of Construction And Architecture, Ukraine

Submission: <http://electroluxdesignlab.com/2014/submission/yura/>



Yura is your personal flying bartender creating custom cocktails and juices for you. It can receive your voice commands or take tasks from his sensory body screens or your phone. He has smart cartridge for liquid that can heat or cool cocktail for your needs. Smart brain will configure power settings, navigation map, voice commands, wi-fi, mail and soft downloads. Creative brain will configure temperature of liquid, the number of calories, carbohydrates, fats and proteins. And of course you can set how much liquid you want to drink.



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20. Feasy

Country: Brazil

Designer: Haline de Oliveira Pinto

University: UFRJ - Universidade Federal Do Rio De Janeiro, Brazil

Submission: <http://electroluxdesignlab.com/2014/submission/feasy/>



Feasy is a wall mounted product for modular food storage. The containers use a vacuum system to optimise the foods shelf life, and each module can be controlled separately to set temperature and humidity. Through magnetism, the containers are supported by the structure that calculates and adapts force to each module weight. Besides the possibility to customise it for personal needs and taste, it also makes it easier to be food conscious and reduce waste.



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21. U-Bubble

Country: China

Designer: 成荫 张

University: Jiangsu University, China

Submission: <http://electroluxdesignlab.com/2014/submission/u-bubble/>



U-Bubble is a concept of refrigerating bubbles that hover in the air in your home, so you can always see what food you have at home. Each bubble can have different products, making sure tastes and odours are not mixed and each ingredient is stored in the optimal way. The bubbles use magnetism to float in the air, and the transparent film that the bubbles are made of also works as an interactive screen. It can tell you how long it is until a product expires, or let you connect with other's who use U-Bubble. The bubbles automatically recharges by docking with a wireless charger in the ceiling.



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22. Cooreater

Country: China

Designer: Yu Yi

University: JiangNan University, China

Submission: <http://electroluxdesignlab.com/2014/submission/cooreater>



Cooreater cooking&musicmaker&creationsharing

Cooreater is a system that turns the stove into an entertainment center, making cooking more exciting. It combines the senses of tasting, feeling and hearing in this cooking process by enabling you to create music from the food you cook depending on the dishes you prepare and then interact with other people via a video chat on the systems spherical surface and share images of the food you have created with others.



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23. Nanopack

Country: Germany / Australia

Designer: René Walk

University: Munich University Of Applied Sciences, Germany

Submission: <http://electroluxdesignlab.com/2014/submission/nanopack>



Electrolux Design Lab 2014
Nanopack by René Walk
renew.lk@gmail.com

Nanopack is a new way to pack your food and leftovers in handy, cube shaped packages. It consists of googols of tiny nanorobots which have the ability to rearrange themselves to create solid forms. By simply putting a Nanopack on your food it spreads out, encloses it and shapes it into a cube using nanobots. By pushing all ingredients to the outside surfaces and it maintains the foods form and quality and leaves no air or moisture pockets. This lets people save money and helps them reduce waste.



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24. Grow Your Own Proteins

Country: United Kingdom / France

Designer: Couvert-Castera Anne

University: Central Saint Martins School, London, United Kingdom

Submission: <http://electroluxdesignlab.com/2014/submission/grow-your-own-proteins>



Grow Your Own Proteins is a kitchen mini station that allows you to grow your own spirulina algae, which is one of the richest protein sources on earth. It contains a spectrum of nutrients and essential amino-acids that help your body remove toxins and regenerate its cells. The system consists of a harvesting tank, a drawer containing the algae drier, hand tools, utensils to process the algae and a food 3D printer that lets you turn your algae paste into any shape you like. The system is controlled via a projected interface that gives advice and guidance on how to process the algae and take care of your aquaculture. By letting people cook healthy and tasty protein based food in a creative way, Grow Your Own Proteins has a positive impact on the environment as it can help reduce the consumption of resource demanding animal protein.



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25. FUTURE HUNTER-GATHERER

Country: United Kingdom

Designer: Pan Wang

University: Masters Industrial Design, China

Central Saint Martins , United Kingdom

Submission: <http://electroluxdesignlab.com/2014/submission/future-hunter-gatherer>



Future Hunter-Gatherer is a virtual grocery shopping experience inspired by nature. It projects a hologram that lets the user play a game to gather food by fishing, hunting or gathering the food from nature. The food the user collects in the game is then transmitted to the local grocery store or market, that in turn gathers the goods and deliver them to the user's door. In addition to making the shopping experience more fun, it also gives kids a better understanding of where the food they eat actually comes from.



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Descriptions of final 35 – Fabric Care

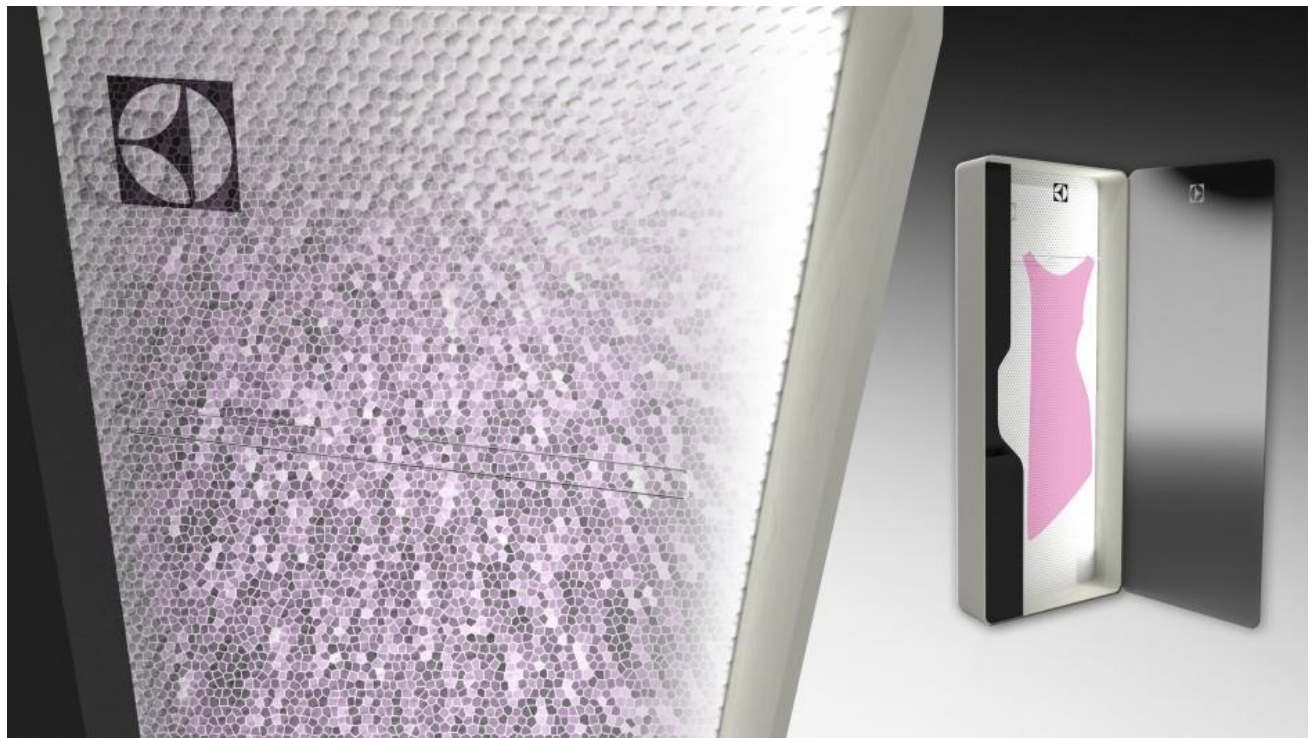
26. Zero Waste

Country: Estonia

Designer: Karolin Kõrge

University: Estonian Academy of Arts, Estonia

Submission: <http://electroluxdesignlab.com/2014/submission/zero-waste-always-trendy/>



Zero waste is a trendy wardrobe that never goes out of style. The system allows the user to make new clothes without creating any waste by using old clothes as a raw material to print the new ones. You simply fill the device with old garments and scan your body measurements, then select the style and color of garment on a touch screen catalogue and have the garment 3D printed and ready to wear. The printable raw material used for the garments is provided with the concept, it is recyclable and easily reconstructed by this wardrobe with a minimalistic design. The eco-friendly wardrobe system supports the sustainable lifestyle by saving up the time and money as well as helping to keep the environment clean.



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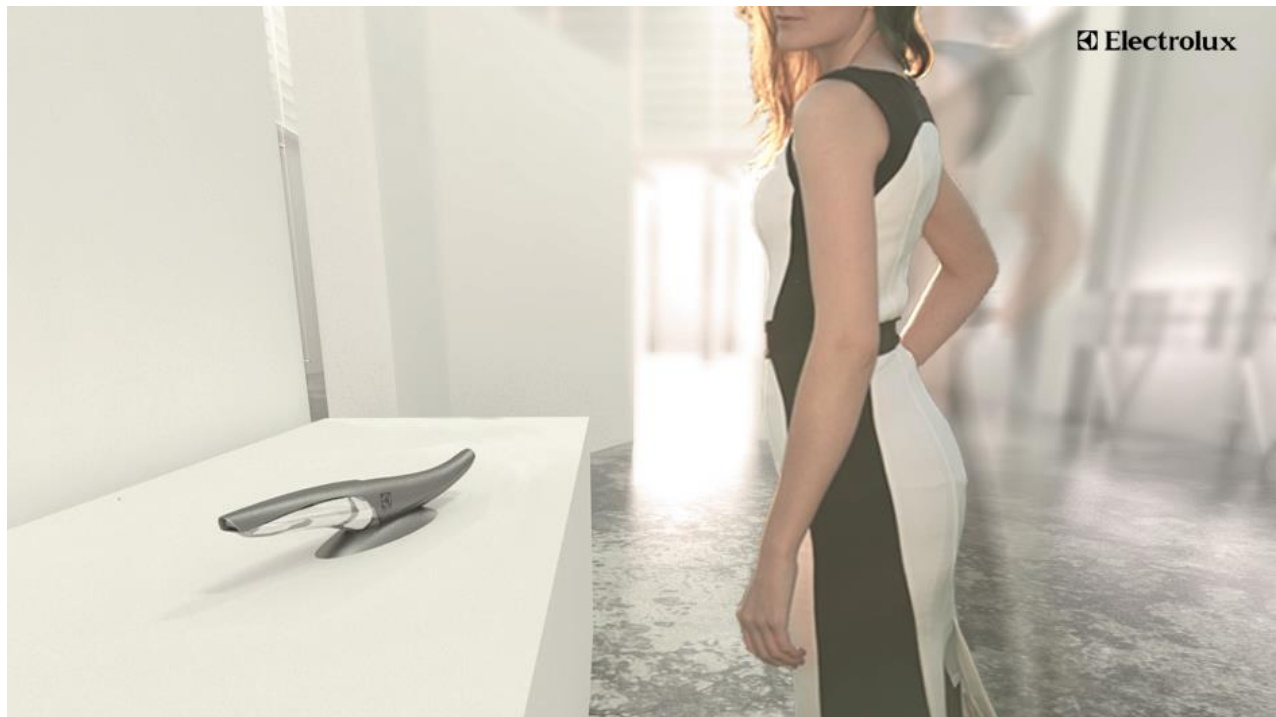
27. Fabric Pen

Country: Lithuania

Designer: Ingrida Kazėnaitė

University: VDA Kaunas Faculty, Lithuania

Submission: <http://electroluxdesignlab.com/2014/submission/fabric-pen/>



Fabric Pen is a sewing kit in your pocket which mends your ripped clothing by printing a patch of same fabric on the damaged area. It is a quick way to mend and retouch your damaged clothing or to design and personalize your old ones, so you don't have to throw old clothes away and continuously buy new garments. With fabric pen you scan the type of fabric material your clothing are made of along with fabric color then print a patch of the same fabric on the damaged area. The printed patch attaches itself to loose threads and masks itself into the pattern. When the patch gets in contact with oxygen it solidifies into instant non-woven materials. You can remove it, wash it and re-weave it, or just start all over again.



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28. Pecera

Country: Korea

Designer: Chan Yeop Jeong

University: Daegu University, South Korea

Submission: <http://electroluxdesignlab.com/2014/submission/pecera/>



Pecera is a collection of robot fish called Dofi, cleaning your clothes in a water tank without detergent. This sustainable way of washing clothes is inspired by doctor fish who nurture human skin, except these busy fishes run on hydroelectric power and clean garments. The robotic fish detects the dirt in the clothes by using the tiny camera in each fish. The cleaning is made by a suction motion by the robot fish against the dirt particles. Washing without detergent makes this washing method suitable for the most sensitive and creates no need for multiple washing circles using water. The first layer spin-dries and drains off the water from clothes.



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29. Vibrate Jelly

Country: Korea

Designer: Jee Na Jun

University: IDAS, Hongik University, Korea

Submission: <http://electroluxdesignlab.com/2014/submission/vibrate-jelly-laundry/>



The Vibrate Jelly machine is a dry cleaning machine in your own home using the adhesive property of jelly consistency to clean dirty clothes. The machine cleans clothes without need to use water or detergent, nor does the garment need to be dried. The concept uses the adhesive property of jelly like consistency to clean dirty clothes by vibration and smoothing wrinkles with sound waves. The dust is gathered to a dust container in the middle of the concept, which then can be emptied.



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30. Luna

Country: Colombia

Designer: Juan Camilo Restrepo Villamizar

University: Universidad Pontificia Bolivariana, Colombia

Submission: <http://electroluxdesignlab.com/2014/submission/luna/>



Luna transforms your laundry basket into a washing machine, reducing the consumption of water and energy, optimizing time and reducing the effort required in washing and fabric care. It is a tiny washing machine you drop into your laundry basket and it cleans your clothes by electrostatic magnet that attracts and collects all dirt particles. The metallic sphere loads within a little dose of water creating a steamy cloud of electrostatically charged fine particles, which come out through pores of the metal surface, wrapping and permeating all the tissues sucked towards the core of the sphere. After the cleaning process Luna dries the laundry with hot air.



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31. Pete

Country: Poland

Designer: Kovács Apor

University: Moholy-Nagy University of Art and Design Budapest, Hungary

Submission: <http://electroluxdesignlab.com/2014/submission/pete/>



The PETE concept merges plastic bottles and creates garments from them according to your taste. The consumer only has to choose the required clothing type, colour and cutting, while the machine gives the amount of PET bottles needed for the fabrication and turns the bottles into polyester and prints the garments. This method creates a natural recycling method for plastic bottles and turns the consumer into an eco-designer.



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32. Instant Cleaning Glove

Country: Romania

Designer: Stefan Bogdan

University: Universitatea De Arte Si Design Timisoara, Romania

Submission: <http://electroluxdesignlab.com/2014/submission/instant-cleaning-glove/>



Instant cleaning glove helps you clean stains from your clothes with just a touch of a finger. The neoprene glove disintegrates any stain or dirt from fabrics with a simple combination of nanotechnology, ultrasound as those that help whiten the teeth, and some water. The glove sponge surface cleans the stains, are changeable and biodegradable. The glove itself is the user interface and is turned on with just with hand gestures. The progression of the cleaning process can be seen on a small LED screen made of bendable AMOLED material on the glove. The glove comes with a wireless charging pad.



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33. Pure Towel

Country: Mexico

Designer: Leobardo Armenta

University: Universidad Autonoma De Ciudad Juarez, Mexico

Submission: <http://electroluxdesignlab.com/2014/submission/pure-towel/>



PureTowel is a smart towel hanger that instantly cleans your towel after usage, creating a cleaner and healthier bathroom. Using an ultra violet ray and a high speed dryer fan, it purifies and dries the towel in only a matter of seconds. By eliminating 99.9% of the bacteria in a towel and reducing humidity it helps the user to stay healthy and clean.



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34. Dynamo

Country: Mexico

Designer: Manuel Melendrez

University: Tecnológico De Monterrey Campus Guadalajara, Mexico

Submission: <http://electroluxdesignlab.com/2014/submission/dynamo/>



Dynamo is a design savvy washing machine that can be hung from the ceiling to any room of the house. By harvesting electricity from kinetic energy simply by bouncing, it saves water, electricity, and money as well as time. It has an intuitive interface and cleans the clothes by sterilising the fabric with electrical polarised spheres that absorb the dirt. The clothes are steamed and ready to wear in only 15 minutes.



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35. Fabric Assurances

Country: United Kingdom / Turkey

Designer: Selin Koşagan

University: Kadir Has University BA / Coventry University MSc Industrial Product Design, Turkey
Coventry University, United Kingdom

Submission: <http://electroluxdesignlab.com/2014/submission/fabric-assurances>



Fabric Assurances lets you refresh and iron your clothes in a matter of minutes. It steams clothes with water and deodorising cleaning fluid and automatically goes across the entire surface of the garment until it's clean or until it's manually stopped. By scanning the fabric care label on each garment, Fabric Assurances makes sure to always give it the right treatment.