



JACKET

with solar panels



Co-funded by the
Erasmus+ Programme
of the European Union



SECONDARY SCHOOL
FOR DESIGN AND
PHOTOGRAPHY
LJUBLJANA



Networking for Entrepreneurship

Project Reference: 2017-1-SI01-KA202-035580

Start: 01-09-2017 - End: 31-08-2019



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Programme: Erasmus+

Key Action: Cooperation for innovation and the exchange of good practices

Action Type: Strategic Partnerships for vocational education and training



The reality in partners' school systems shows students educated in different programs with no or very random contacts with each other and lack of global knowledge of how to start their own business. In this project we combined three different fields of school education - production, marketing and design to achieve the common goal of potential commercial success.

Students will benefit from entrepreneurial learning by developing collaborative planning, by understanding essential integration between different areas/programs to create commercially interesting products and start successful business, as well as essential skills and attitudes such as creativity, initiative, tenacity, teamwork, resilience, understanding of risk and a sense of responsibility. The entrepreneurial mindset will help students to put ideas into action and become self-confident in order to meet needs of the real market. It will help them to be more enterprising, competitive and innovative, thus becoming more employable.

Jacket with solar panels

Students of the Secondary School of Economics ŠCNG founded an ecologically oriented practice firm SOLARIX Ltd. Their idea for the firm was to market products with incorporated solar panels, which could be used in naval industry, on marine vessels, for outdoors activities, travel, in remote areas etc. They mostly focused on products (clothes, bags etc.) with solar panels that could charge smaller electronic devices.

In order to develop their idea of clothes with solar panels they contacted the department of Fashion design at SŠOF. After a selection process their mentors chose a design by Lara Ponebšek, who then developed her fashion creation as part of the NET-ENT pilot project.

After selection of the most appropriate sketches and materials, a 4th year student Lara Ponebšek tailored and manufactured a prototype of a jacket made from thin softshell. Her design had to take into account the technical characteristics of the solar panels and other components. A solar cell catches sunrays that seep through a laser cut geometric pattern and the energy is stored in a power bank hidden in a special pocket. The harvested energy is at disposal whenever the mobile phone battery runs out. The student also used a laser cutter in collaboration with the Department of Product design.

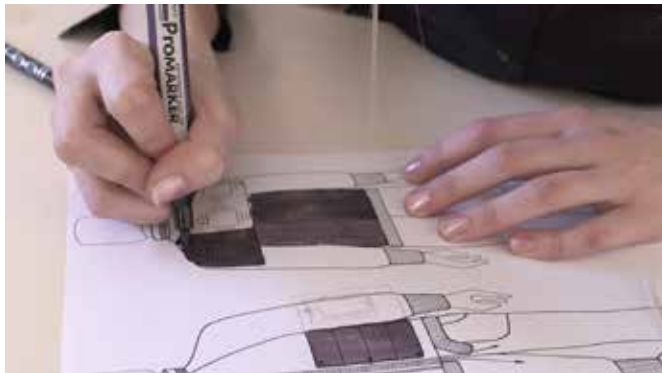
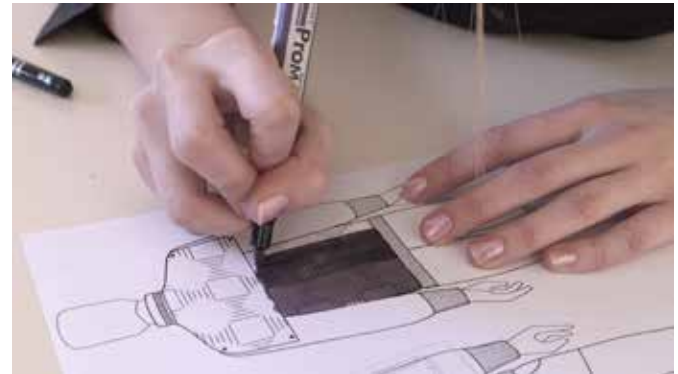
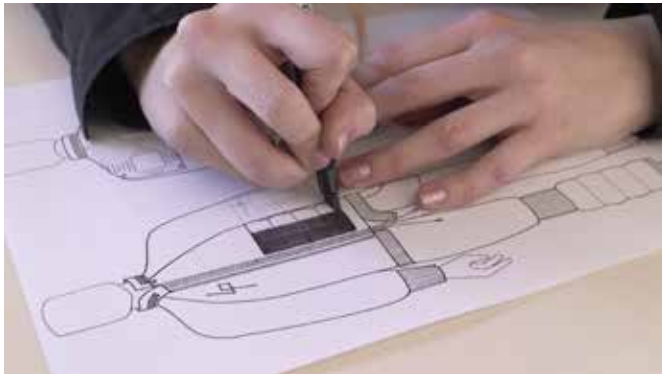
Jacket with solar panels

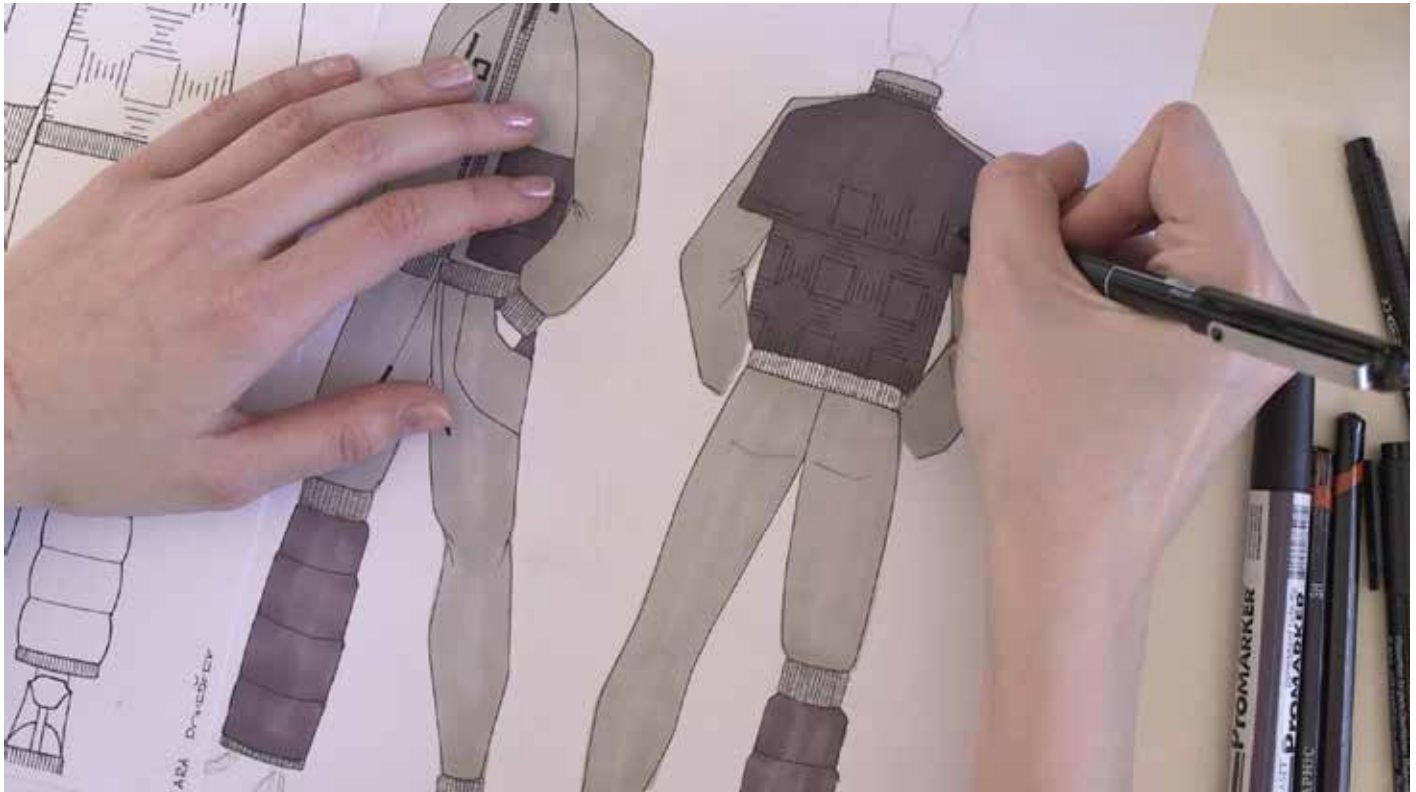
SŠOF / Fashion Design / Lara Ponebšek



Jacket with solar panels

SŠOF / Fashion Design / sketches





Jacket with solar panels

SŠOF / Fashion Design / choosing the material



Jacket with solar panels

SŠOF / Fashion Design / tailoring & hand sewing



Jacket with solar panels

SŠOF / Fashion Design / tailoring & hand sewing



Jacket with solar panels

SŠOF / Fashion Design / laser cutting



Jacket with solar panels

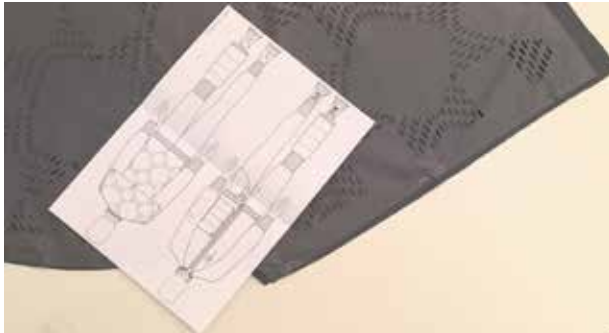
SŠOF / Fashion Design / laser cutting





Jacket with solar panels

SŠOF / Fashion Design / finishing the collector cover





Jacket with solar panels

SŠOF / Fashion Design / sewing



Jacket with solar panels

SŠOF / Fashion Design / the finished prototype



Jacket with solar panels

SŠOF / Fashion Design / the finished prototype



 SOLARIX



Coordinators & Mentors

SŠOF

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Fashion Design

Sabina Puc
Nataša Grčar Napast

Graphic Design

Saša Vitežnik Jelen

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Students

SŠOF

Fashion Design
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Graphic Design

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Katja Glavač Jakovljevič

Photography

Sara Selšek

Video / photo from video

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ŠCNG

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Mik Sulič

Technical support

SŠOF

Laser Cutting
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ŠCNG

Collectors & Electronics
Matjaž Marušič
Robert Čebtron

