MINISTRY OF TOURISM
PROMOTION AND STRENGTHENING OF COMPETENCE
VOCATIONAL OCCUPATIONS FOR TOURISM 2017.

Find Me

Mechanical engineering school Osijek
The objectives to be achieved by the implementation of the project

By the implementation of the project will be achieved global market trends on which the Croatian tourism should capitalize by 2020.

This project involves a proactive approach to preserving the environment, natural and social resources. The implementation of 'green' concepts at all levels of opportunities for genuine sustainable tourism development and compatible market positioning.

By including non-tourist sector in the development of tourism in continental Croatia increases innovation and entrepreneurial spirit, and collaboration with other stakeholders in tourism is encouraged.
Design stages

- Developing ideas
- Product design
- Creating a product prototype
- Product Testing
- Presentation of the system – Baranjska planina
Developing ideas

The main idea of this project was to create a device that would allow the finding of injured and lost hikers / tourists.

This device must be as convenient as possible it would be accessible to all hikers / tourists or mountaineers / tourist communities.
Developing ideas

Work atmosphere in the project office

Everyone has the BEST idea
Developing ideas

The device must work in areas where the mobile network is unavailable.

The highest peak nearby: Baranjska planina - 245 m
Product design

The primary idea was to make the product of two parts. The first part is on an unmanned aircraft and serves as a signal receiver. The second part, the transmitter, is located on a hiker/tourist and it is used to transmit the signal. Simplified – The device on unmanned aircraft reads the signal of the lost person and sends the position of the signal to our web server which gives the coordinates of the lost person.
Creating a product prototype
Product Testing

Testing was successfully done in the school yard.

To explain the principle of work, assume the 1km² space that an unmanned aircraft covers, then assume that the person who got lost on it is wearing the Find Me emitter! and she just activated it.
Product Testing

The unmanned airplane flies in a pre-determined path on the area it covers and is tracked all the time if there are activated transmitters at a frequency of 433MHz. If the signal is found, the location where it received the signal, the device records it in its memory and can be sent immediately to our web server (http://www.project-find.me)
Product Testing

Once the data comes to the server on our website a red dot appears on Google maps which shows where the unmanned aircraft was at that time, and a 100m diameter to search for the lost person.
Presentation of the system – Baranjska planina

Welcome salute!

There is always a wire we have to connect

I can not wait for someone to get lost!!!!

One of the most important parts of the project implementation
Presentation of the system – Baranjska planina

Checking the location

The crime scene team „Find Me”

Test flight
Tea and Mario are examining the terrain more thorough

At this moment they realized that they were lost in the abundant deep forest of the Baranja Mountains

Fortunately, they brought and activated the Find Me! device
Meanwhile, David and Borna activated the area search system.

View from the drone.

A moment of finding the lost.
The position of the lost is visible on Google Maps.

Mario says it was terrible, he thinks he saw a bear and that we saved them in the last moment.

Yes, yes, we all believe it!
Presentation of the system – Baranjska planina

Project Team after a successful presentation of the Find Me system..

...at the same time the members of the student cooperative of the School

Relaxing in the beautiful landscape of Baranja!
Participants in Baranja adventure

- Tea Kovačević
- David Blažević
- Borna Butković
- Andrija Habus
- Mario Kantor
- Adam Varga
- Vinko Zlomislić, prof.
- Dalibor Rašić, dipl.ing.
Thanks to everyone who helped us in the successful implementation of the project.