Slide 1

Logo Eco Fly

Slide 2

Our project

Our project consist to use a Tello drone for monitor trails

and detect obstacles on ones.

We were thinking of adding a raspberry pi to the drone.

It would have detected people or animals in danger

and, in this case, call the appropriate rescue services.

We also wanted to use raspberry pi to detect

if there is waste on the track.

But the raspberry pi was too heavy for Tello.

So we focused on commanding the drone with the leap.

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Materials

We will now give a brief introduction to the various components used, or the Leap and the Tello drone.

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Tello

The drones are flight apparatus without a pilot on board. Through four propellers, they have the ability to fly in open spaces and allow different types of operations to be carried out. For example, taking photographs and streaming footage. They are equipped with a structure made of light materials, so that they can fly without any complications. They are also equipped with a battery that powers the engine, this allows the propellers to move and thus provide the drone with the necessary force to snatch the flight. You can control the drone through a downloadable application on your smartphone, or program it in Scratch or Python as in our case.

Slide 5 (Matte)

Leap

The Leap Motion Controller is an optical hand tracking module that captures the movements of your hands with unparalleled accuracy.

Low processing power, a wide field of view, and near-zero latency; the Leap Motion Controller makes human interaction in digital worlds natural and effortless.

Slide 6

The tello and leap have been programmed in the Python programming language. The biggest difficulties in programming were importing the different libraries and versions of Python according to the code. We noticed that we had to install different libraries and different versions of Python.

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Team and Github page

If you want to learn more about the project,

you can consult our github page.

Here is the link to the github page of project

and here are the links to our personal githubs.