

Students design sunglasses for blind people that alert them of high obstacles

LOCATION: Bollullos Par del Condado (Huelva)

DURATION: 1'30"

SUMMARY: A group of students has designed an infrared light device that installed in sunglasses alerts with a beep to blind people so they can avoid high obstacles. They are students of the Professional Training Centre Nuestra Señora de las Mercedes at Bollullos Par del Condado, a town of the province of Huelva. These young students came out with the idea when one of them was walking down the street and hit his head with the branch of a tree he hadn't seen, then he thought about blind people, unable to detect this type of obstacles with their cane.

VTR:

This student has got into the shoes of a blind person. The beep emitted by his sunglasses alert him when there is an obstacle on his way.

Ambience: Beep.

It is the invention that he and his partners of the Professional Training Centre Nuestra Señora de las Mercedes at Bollullos Par del Condado, a town of the province of Huelva. They have created it thinking of the more than 70.000 blind people existing in Spain.

ÁNGEL CRISTO BERMÚDEZ
Student

"We try to make their life a little easier, at least having a walk, making them feel more comfortable."

But, how can these sunglasses detect an obstacle? They have a transmitter and a receptor of infrared light. If the ray of light strikes any object, it will go back to the glasses activating the alert.

DIEGO CAMACHO
Student

"They have their cane, but the cane just detects medium-high obstacles, down the trunk, and these glasses are designed to detect obstacles up the trunk."

All of it for just three euros.

DIEGO CAMACHO
Student

"Due to its components, we have used low cost components."

JONATHAN MEDINA
Teacher

"We looked for the most affordable devices."

As it happened with Newton and his apple, the branch of a tree was the trigger of this idea.

DIEGO CAMACHO
Student

"I bumped the branch of a tree and I thought of that people."

Young inventors that have won the prize 'Project your Future' of the University of Huelva, that above all have the satisfaction of contributing to the welfare of blind people.

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