

STORY NAME:	Smart glasses that narrate life for the visually impaired		
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LANGUAGE:	Arabic	DURATION:	00:01:50
JOURNALIST:	Haya AbuShukhaidem	EMAIL:	Haya.imraish@gmail.com
SLUGLINE:	Hearing to the ear of the person with Visual impairment		
HEADLINE:	Mohamed has designed smart glasses, whose purpose is to help blind people identify the things around them.		
DATELINE:	Bethlehem, Palestine - 12/09/2018		
SCRIPT:	<p>(00:19 – 00:26) My name is Mohamed Khalil Al-Najjar. I study Medical Device Engineering at Palestine Polytechnic University in Hebron.</p> <p>(00:27 - 00:46) We invented the smart glasses, from which the main purpose is to help the blind people to identify the things around them. The basic principle of the system of the project is a principle that simulates the human eye that transmits images to the brain, and the brain analyze them based on previous memorized information.</p> <p>(00:47 - 01:15) In this project we used a small computer that analyzes the images using complex algorithms programmed in the Python language. The images then are compared to a previously entered database, and then the object or the tool is identified by the computer. Then, the computer sends an audio message to the blind, telling them what objects there are in front of them, such as a keyboard, a book or a laptop.</p> <p>(01:23 - 01:59) We are three Engineering students working on this project; two of us are specializing in Medical Device Engineering and the other is specializing in Communications Engineering. We invested the specialists and assembled them into one project to help the blind. This project is a primitive model that needs to be developed. In addition, we need to create a phone application, that absorbs more information, for the blind to use in order to facilitate their life.</p>		
SHOTLIST:	<ul style="list-style-type: none"> - Shot of Mohammad wearing glasses attached to a camera and headphones - Shots of Mohammad looking through the glasses at objects that are identified 		

	<p>on his computer.</p> <ul style="list-style-type: none">- Close shots of the small computer while Mohammad is assembling its pieces together and attaching them to the glasses and headphones.- Shot of the laptop screen. <p>More shots of Mohammad and his partner in the project working</p>
SCRIPT: (Original language)	<p>(00:26 – 00:19) اسمي محمد خليل النجار بدرس في جامعة بوليتكنك فلسطين الخليل تخصص هندسة اجهزة طبية</p> <p>(00:46 – 00:27) اخترعنا النظارة الذكية الي هدفها الاساس مساعدة الاشخاص المكفوفين للكشف والتعرف على الاشياء المحيطة حولهم، المبدأ الاساسي الذي استندنا عليه في نظام المشروع، هو مبدأ يحاكي العين البشرية التي تقوم بنقل الصور للدماغ ومن ثم يقوم الدماغ بتحليلها بناء على معلومات سابقة</p> <p>(01:15 – 00:47) في هذا المشروع قمنا باستخدام كومبيوتر صغير الحجم الذي بدوره يقوم بتحليل الصور باستخدام خوارزميات معقدة مبرمجة بلغة البايثون، ويتم مقارنتها بقاعدة بيانات مدخلة سابقا ومن ثم يتم التعرف على الجسم او الاداة الموجودة امام الكاميرا ومن ثم يتم اخبار المكفوف برسالة صوتية ما هو الجسم الذي امامه مثل كيبورد او الكتاب او الحاسوب المحمول.</p> <p>(01:59 – 01:23) احنا في هذا المشروع ثلاثة اشخاص اثنين تخصص هندسة اجهزة طبية والثالث تخصص هندسة اتصالات، استثمرنا التخصصين وجمعناهم في مشروع واحد لمساعدة المكفوفين. هذا المشروع هو نموذج بدائي بحاجة لتطوير. بالاضافة الى عمل تطبيق على جهاز الموبايل لتسهيل ادخال كمية معلومات اكثر وتساعد المكفوف بشكل اكبر.</p>
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