

# **2002 TAIWAN INTERNATIONAL SCIENCE FAIR**

CATEGORY : Medicine and Health

PROJECT TITLE : CANE FOR BLIND

SCHOOL : C.E.T.i.s. No. 156

FINALISTS : BLANCA ROSA MARTINEZ CRAVIOTO

COUNTRY : Mexico

# ABSTRACT

CATEGORY: MEDICINE & HEALTH

TITLE: CANE FOR THE BLIND

NAME: BLANCA ROSA MARTÍNEZ CRAVIOTO & JESÚS MANUEL

URBINA REZA

COUNTRY: Mexico

## **a) PURPOSE OF THE RESEARCH**

The main reason for the creation of the project was looking for the unconditional support for the entire handicap people that reside in the whole world.

In all the communities there are barriers that oppose the total development of these people, and what currently exists can not help achieve a full life for example: it's hard to have a basic education, a productive employment, or in their case to have a simple normal life.

At the present time there is a serious problem of inequality, this is presented because there has not been a mechanism that has been able to please 100% of its real demand. That's way what we seek with this prototype, to be able to help them to have and live a better quality of life, it has the function of warning them when an object is near or before them emitting a brief sound that does not cease until the way is completely free of obstacles, it is also sought to prevent accidents like falls, trips, among other, and also to help create more access possibilities to help any people that suffer any kind of handicap.

This is a prototype that is able to help blind people, by helping them become able to move from one place to another more faster and more securely, these is trying to make them more sure and reliable on them self, also the project is very economical and it was created due to the high quantity of blind men and women that exist in the whole world.

### **b) PROCEDURE:**

First we looked for any similar type of projects on the web and in different places on the market but we didn't have any good results for what we decided to work completely in making a new viable, economic and favorable prototype for people that suffer of blindness.

The finished circuit is very easy to build, this is made with the help of integrated circuits, it also has a switch, a vibrator and other devices that make an easy operation of the cane.

### **c) DATA**

The project is designed so that it can be reproduced in very little time obtaining enough copies to satisfy the demand, it works with a 12v. current that gives the whole circuit power to work, these can be obtain with a rechargeable Battery, this makes it more easy to handle so that the user will be able to move without any problem.

It has the following one characteristic:

\* Is very light

\*It's very cheap

\*it's not dangerous

#### **d) CONCLUSION**

The difficult conditions of life cannot be ignored by any of us, there are many people that suffer and that are in urgent need of support, we should fight to improve the life of all the people that surrounds us, it is up to us to help them feel self-sufficient so that they can end up being productive and we are sure that we will help to do this with the "THE CANE FOR THE BLIND" it's our way of giving something back and helping the people be able to live a full and normal life.