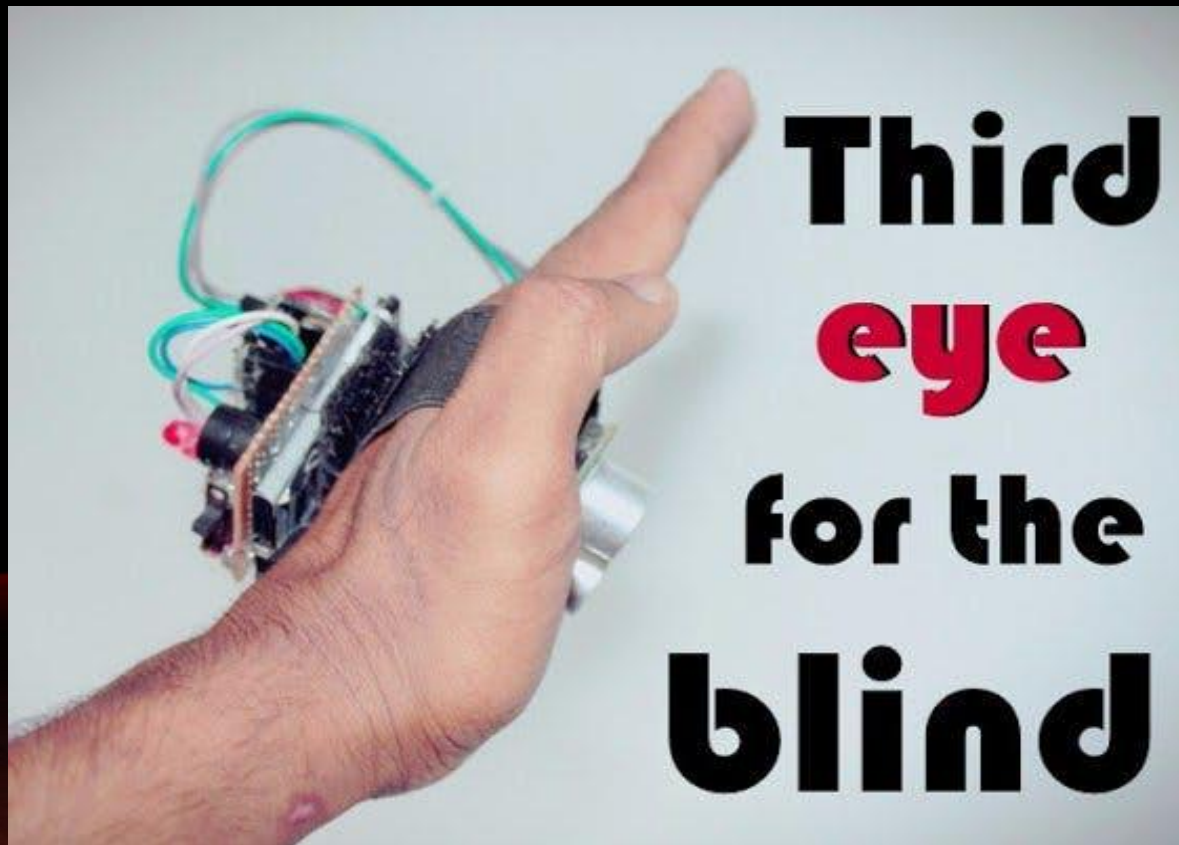


THIRD EYE FOR BLINDS



TEAM MEMBERS:

-R.SAKTHIVEL

-S.SHEEBA

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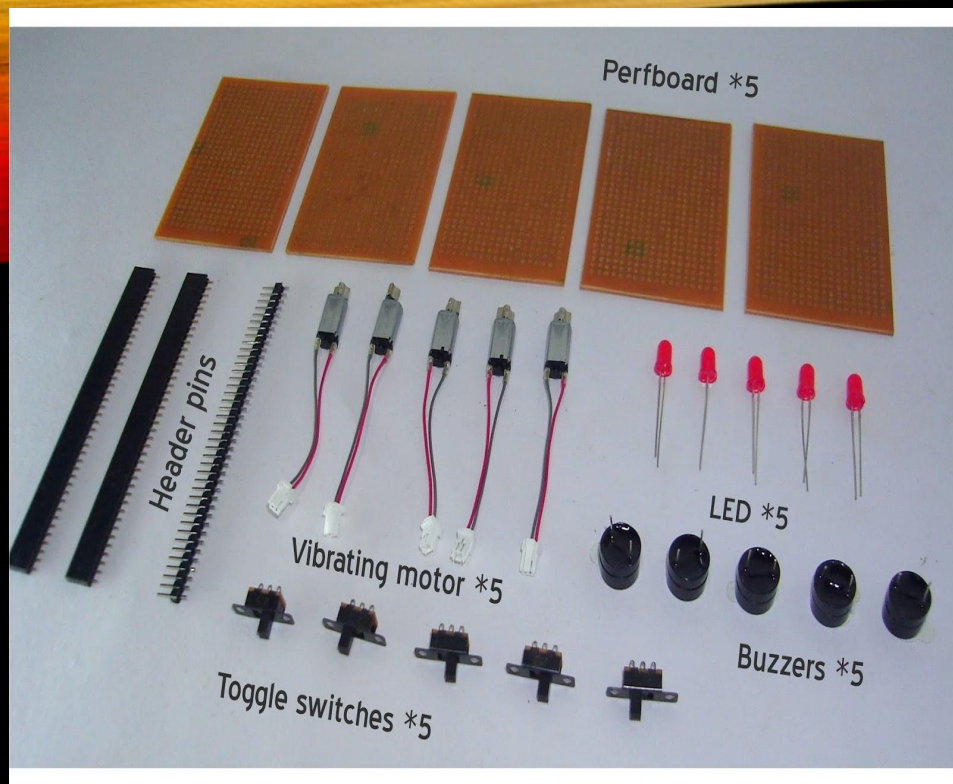
-R.VIJAYALAKSHMI

OBJECTIVE

Third eye for the people who are blind is an innovation which helps the blind people to navigate with speed and confidence by detecting the nearby obstacles using the help of ultrasonic waves and notify them with buzzer sound or vibration . They only need to wear this device as band or cloth.

MATERIALS REQUIRED

- 1) Arduino Pro Mini
- 2) Ultrasonic Sensor
- 3) Per fboard
- 4) Header Pins
- 5) Vibrating Motor
- 6) Toggle Switches
- 7) Buzzers
- 8) LED
- 9) Band
- 10) Jumper Wires



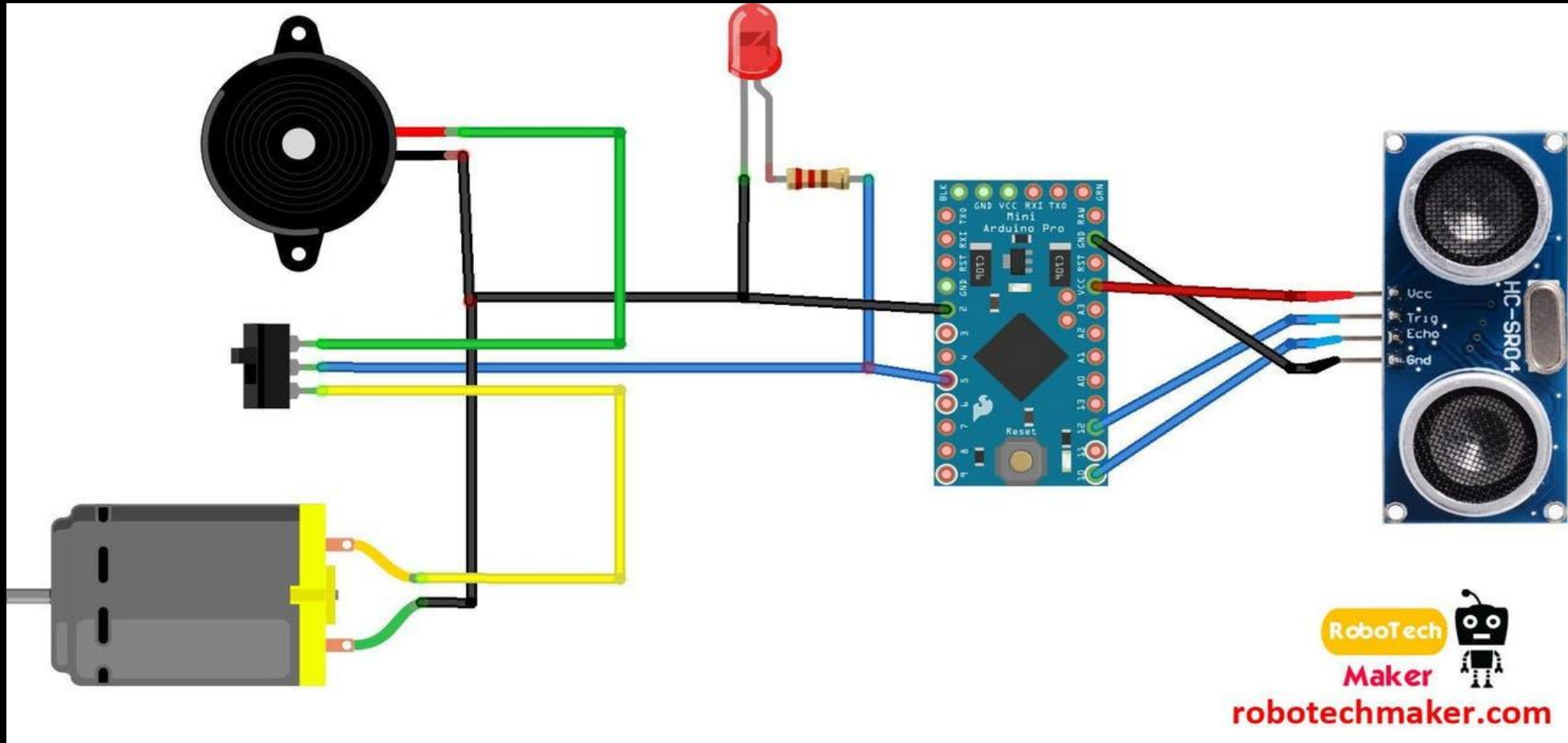
ADVANTAGES

By wearing this device they can fully avoid the use of white cane such other devices .

This device will help the blind to navigate without holding a stick which is a bit annoying for them.

DISADVANTAGES

CIRCUIT DIAGRAM



EXISTING SYSTEMS

→ White Cane

→ Pet Dogs

→ Smart Devices



DEMERITS OF EXISTING SYSTEMS

White cane:

May easily break/crack. The stick may get stuck at pavement cracks of different objects.

Pet dog:

Huge cost(~\$42,000/28000Rs).

Smart devices:

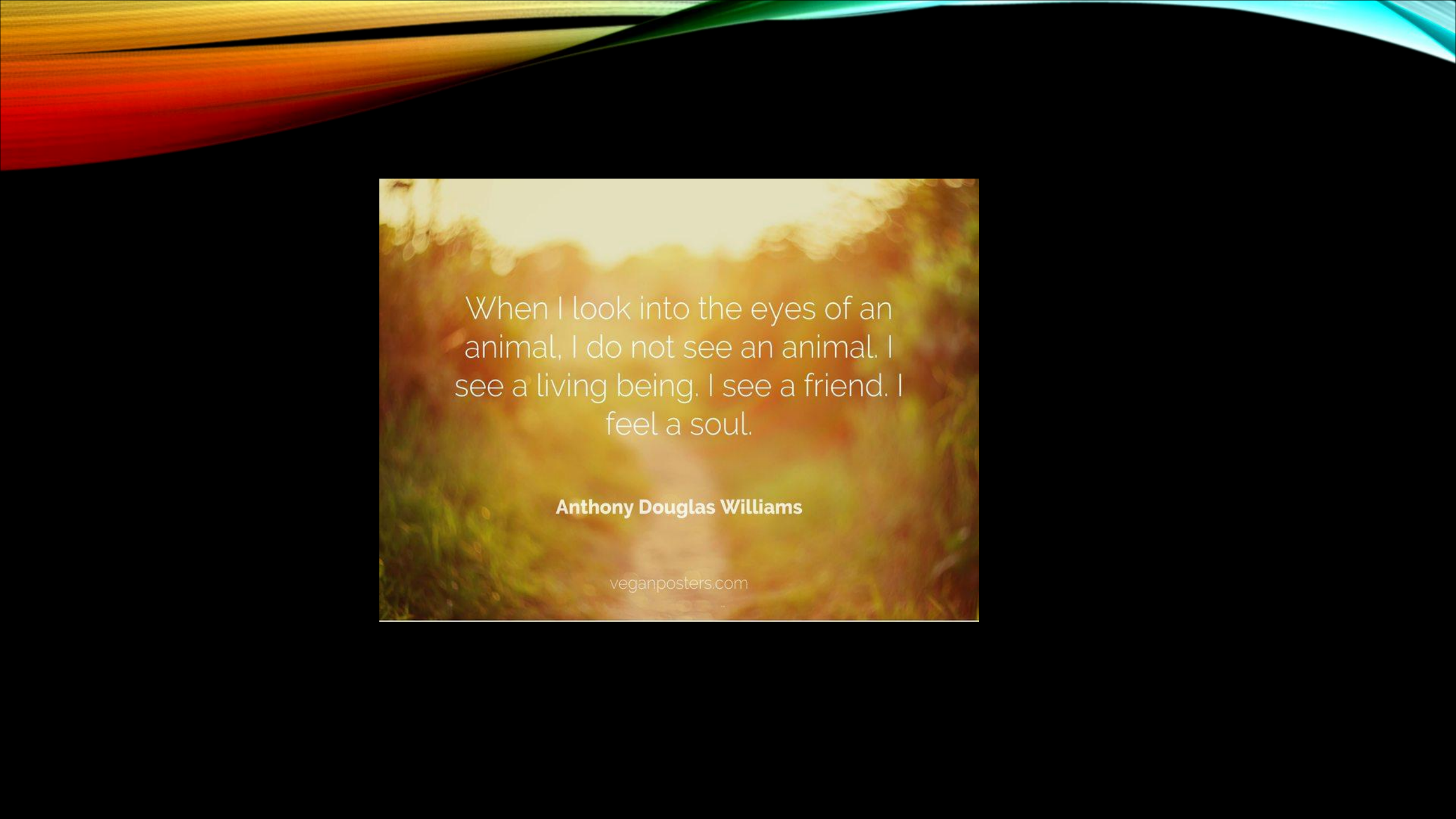
Cannot be carried easily , needs a lot of training to use.

FEATURE IMPROVEMENTS

The entire project can be made in the form of jacket , So that the device doesn't need to be wear one by one . Use of specially designed boards instead of Arduino and high quality ultrasonic sensors makes faster response which make the device capable of working in crowded.

ADVANTAGES

By wearing this device they can fully avoid the use of white cane and such other devices.



When I look into the eyes of an
animal, I do not see an animal. I
see a living being. I see a friend. I
feel a soul.

Anthony Douglas Williams

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