

Intelligent mousetrap

oktober 5, 2020 · Mechatronica, Microcontroller

Auteurs

ZEH Otten

With great pleasure and enthusiasm I would like to share the following with you. Recently I bought the 'trip-trap' mousetrap. I successfully caught mice and was able to return them to nature alive. Then the following idea came to mind.

Catching mice alive in the trip trap works, but if the trap is set up in an unclear room or in a room that is not continuously occupied by people, it can happen that a captured mouse will still die in the cramped space in which it has been kept prisoned for too long.

Why not an alarm on the trap that responds when the mouse is caught? It is very useful, convenient and animal-friendly to have an email and/or a twitter message sent to the owner of the trap.

Below is a short description of the solution I came up with, namely a 'intelligent mousetrap':

The prototype of the 'intelligent mousetrap' solution consists of a sensor and a microcontroller. As soon as the mousetrap is supplied with power (220V adapter or battery) the microcontroller will start a program.

A green LED will light up indicating that the software is on-line via a Wi-Fi connection and the sensor can be activated.

The hatch of the trap can now be opened. Place the sensor in front of the hatch and press the button for a second. The green LED will now go out. The trap is on edge!

When the cover is closed and the sensor detects this (the red LED on the sensor will be on), the software will successively take a photo, send an email and/or send a twitter message. After ten seconds, the green LED will light up again, indicating that the trap has closed. The program has now stopped and the microcontroller will turn itself off.

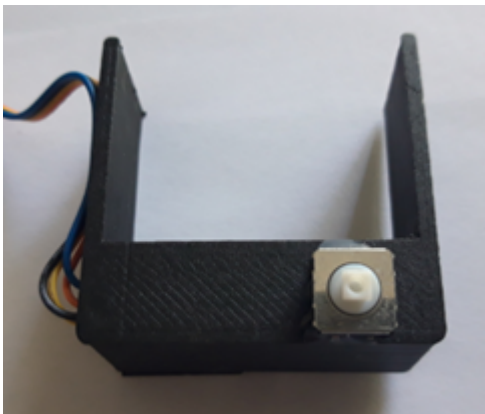


Fig. 1: sensor with button

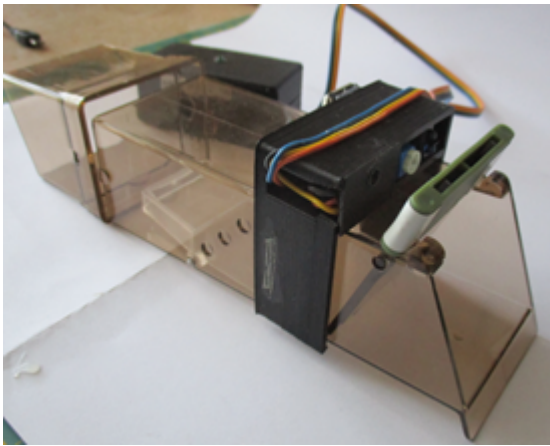


Fig.2: Trap and sensor

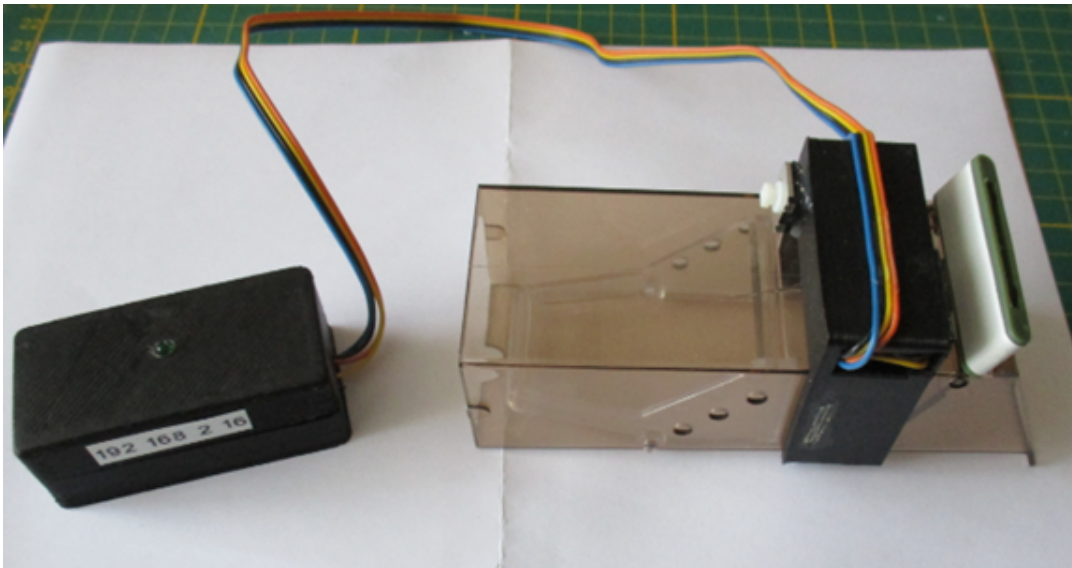
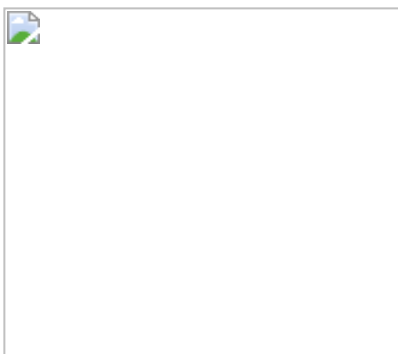


Fig 3: Total setup mousetrap



Advertenties

Sommige bezoekers kunnen hier soms een advertentie en een [banner over Privacy & Cookies](#) onderaan de pagina zien. Je kunt deze advertenties verbergen door te upgraden naar één van onze betaalde abonnementen.

UPGRADE NU

BERICHT VERWERPEN

Herbloggen

Like



Een blogger vindt dit leuk.

Gerelateerd

[FEZ MINI goes Wifly](#)

5 september 2012

In "Microcontroller"

[Raspberry Pi \(2\): Volumio en LED](#)

19 mei 2014

In "Microcontroller"

[Raspberry Pi \(5\): Meet energieverbruik](#)

13 oktober 2015

In "Electronica"

☺