



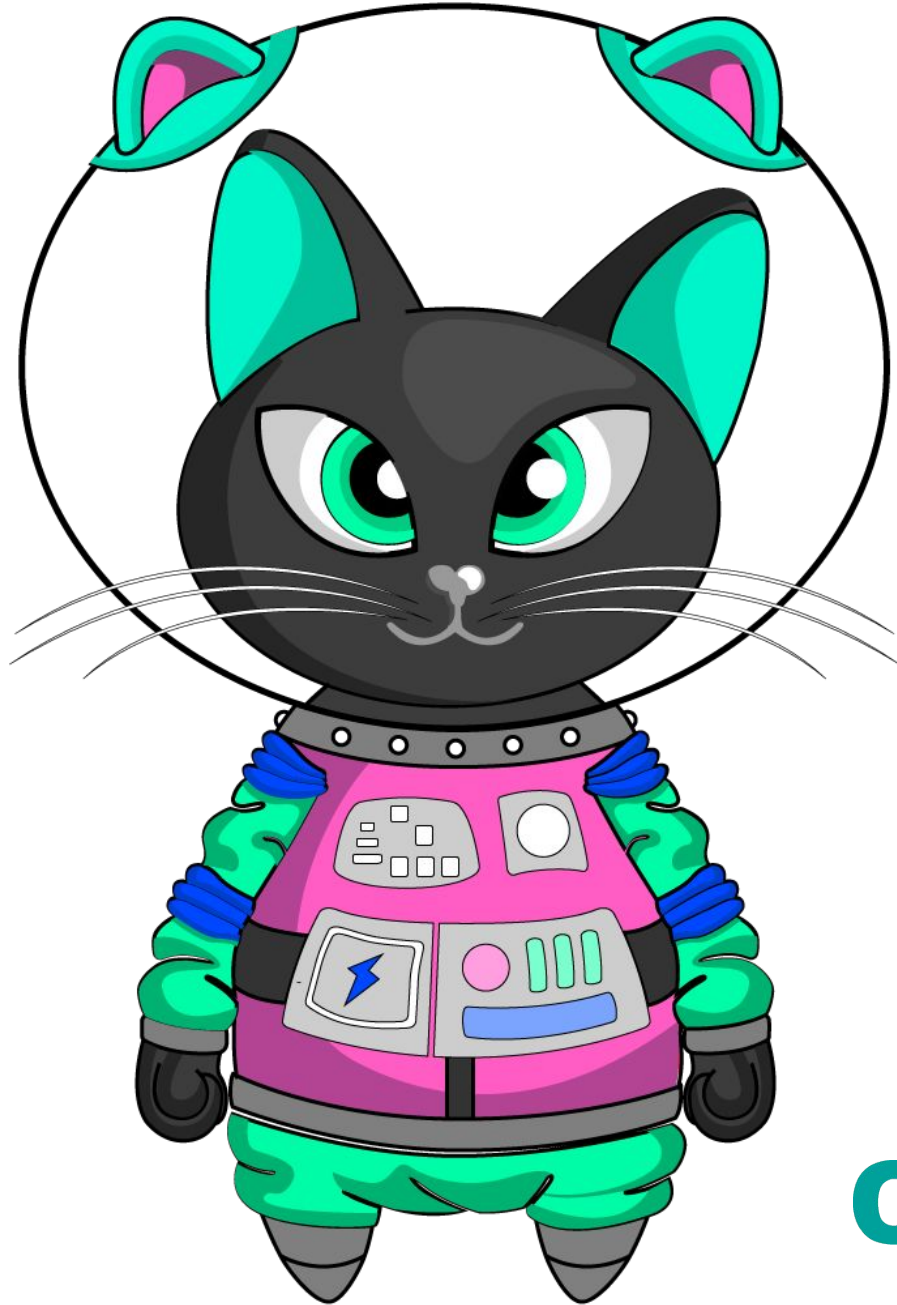
Contribuyendo al Hardware Libre

Andres Sabas
Director Electronic Cats



CC  SS

*Meow
Meow
amigos!*

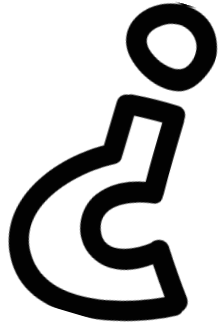


Andrés Sabas

- Ingeniero en Electrónica por ITA
- Co-fundador de The Inventor House Hackerspace
- Director General de Electronic Cats
- Tecnologías Raspberry Pi, ARM, LoRa, ESP8266, ESP32



¿Por qué hardware libre?



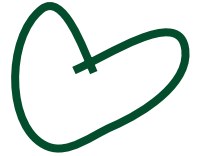
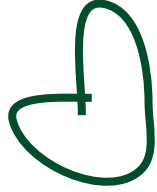
open source
hardware



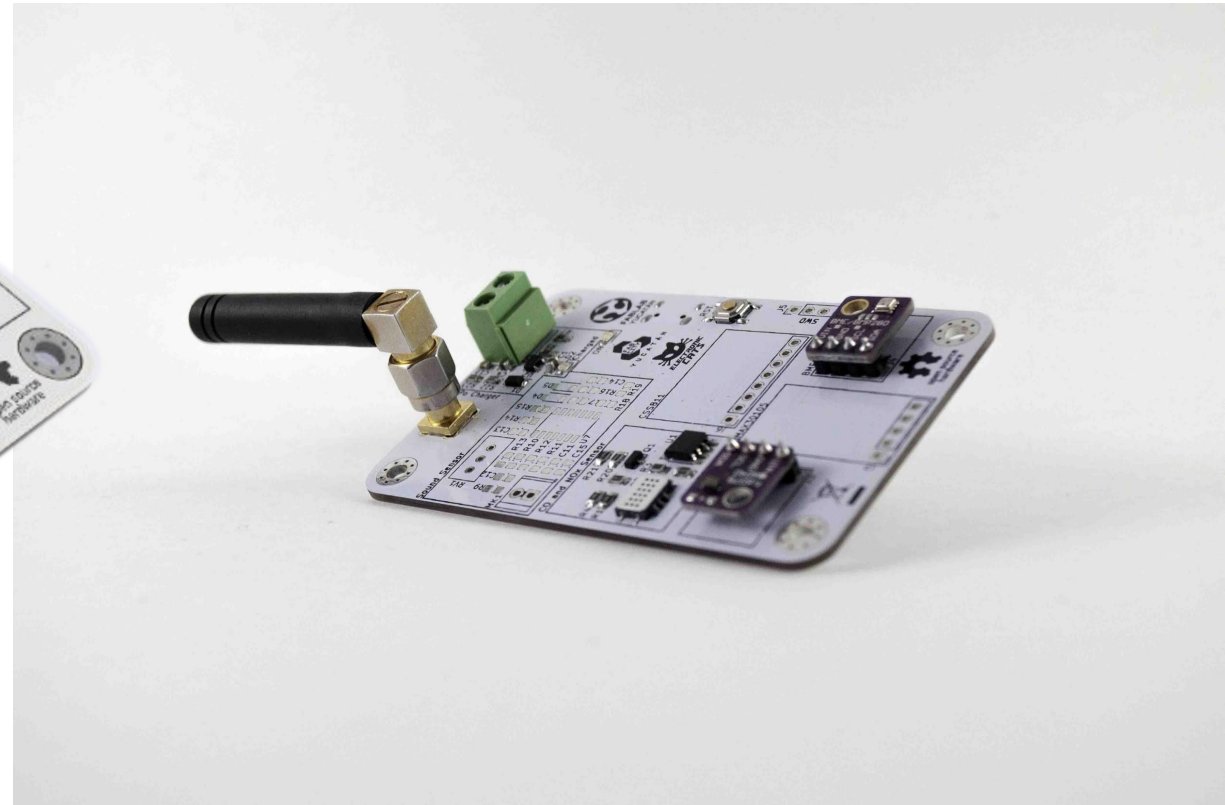
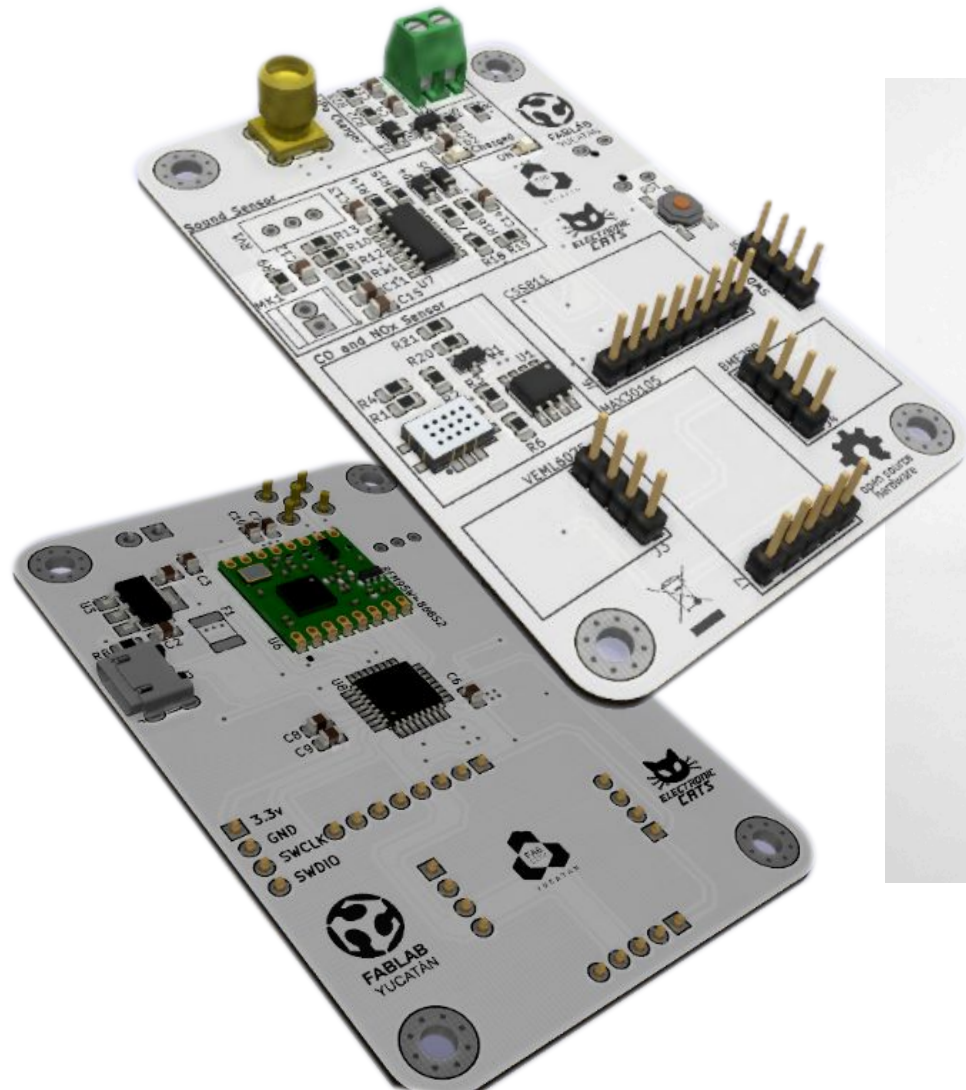
Arduino, Adafruit, SparkFun...



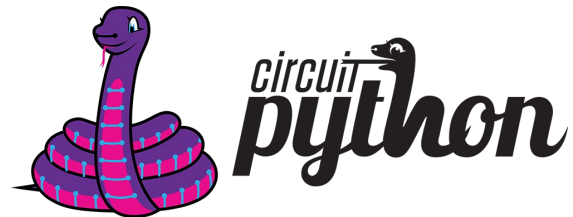
El inicio



Diseño Mexicano

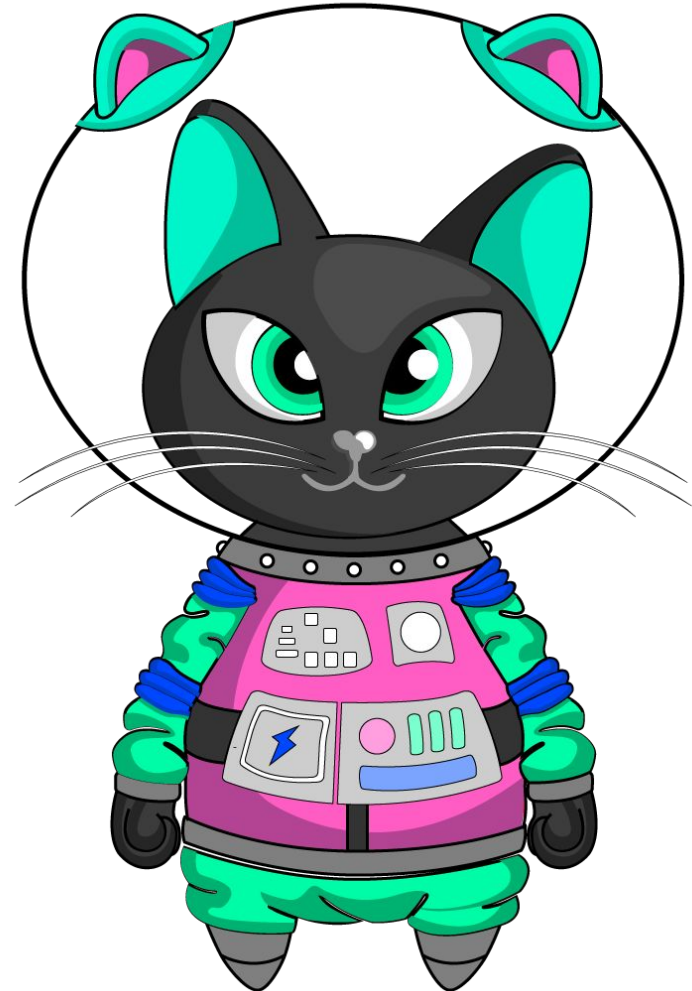


Software Libre

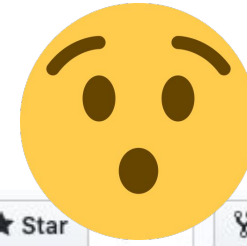


- KiCad
- Arduino
- GCC
- Python
- VisualCode

Git y Github



Mi primera vez



samyk / magspool

Watch 183 Star Fork 472

Code Issues 11 Pull requests 2 Projects 0 Wiki Security Insights

Add Schematic and PCB in Kicad #10

Merged samyk merged 1 commit into samyk:master from sabas1080:master on 20 Jan 2016

Conversation 0 Commits 1 Checks 0 Files changed 6 +1,780 -0

sabas1080 commented on 20 Jan 2016

I added a Schematic and PCB Kicad, CERN Open Hardware Licence 1.2 (CERN OHL 1.2)

- Add Schematic and PCB in Kicad 00cc551
- samyk added a commit that referenced this pull request on 20 Jan 2016
- Merge pull request #10 from sabas1080/master ce62415
- samyk merged commit ce62415 into samyk:master on 20 Jan 2016

Revert

Reviewers: No reviews

Assignees: No one assigned

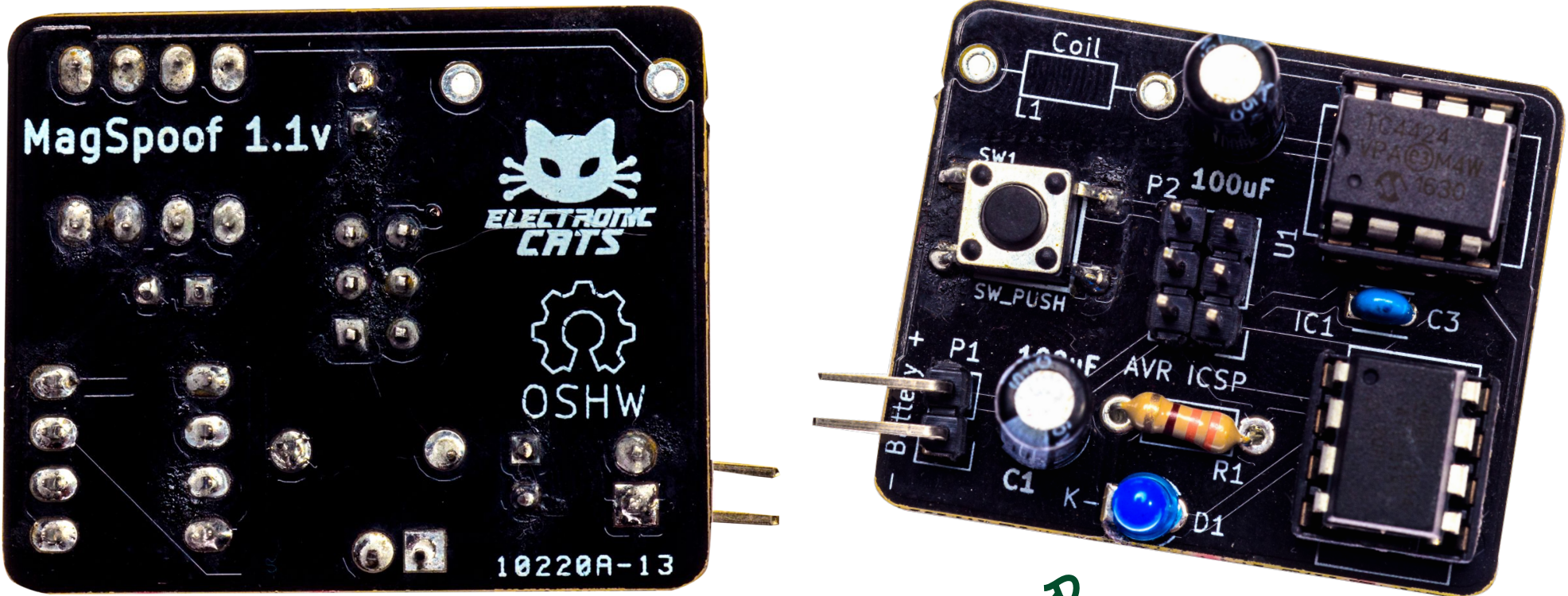
Labels: None yet

Projects: None yet

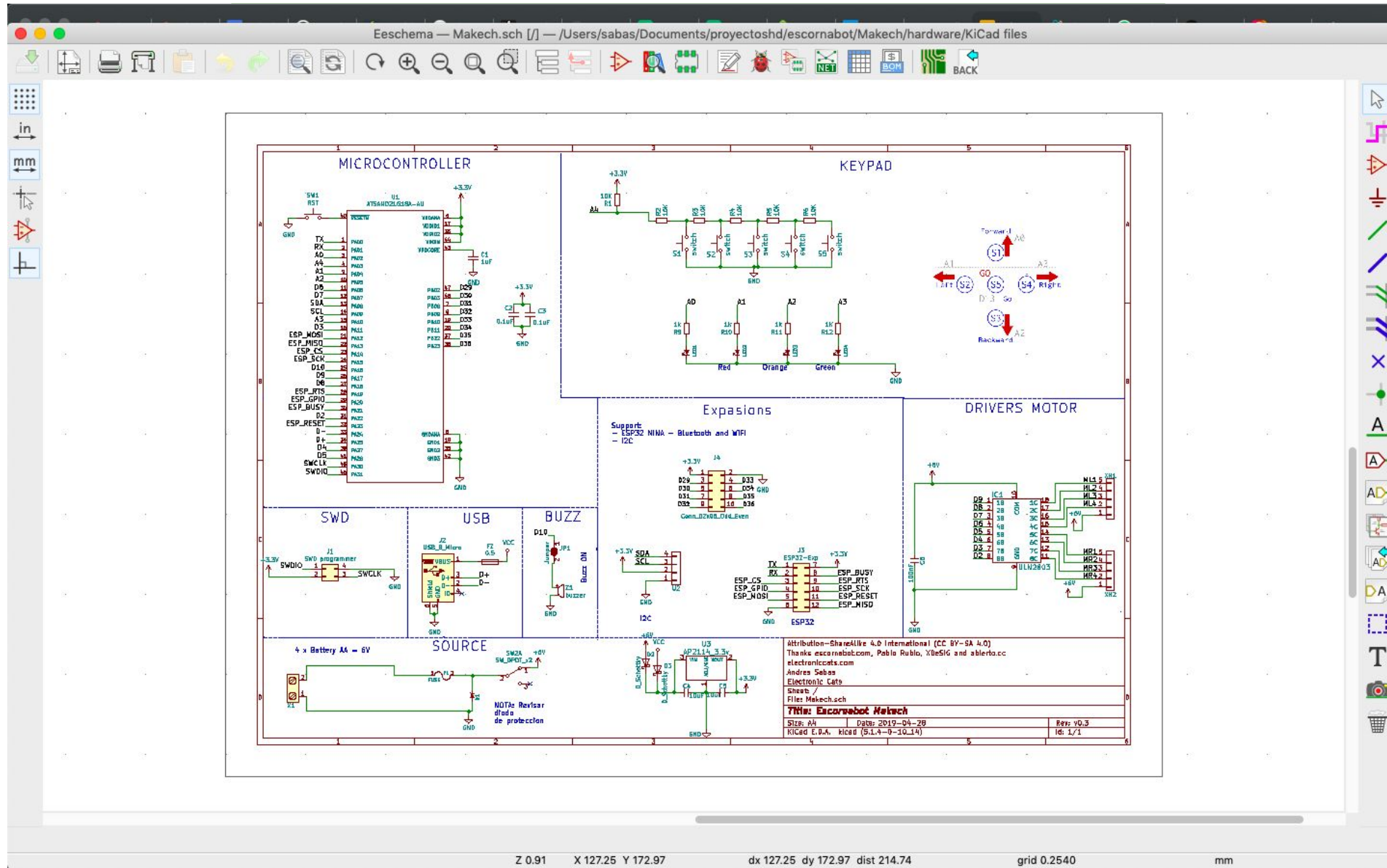
Milestone



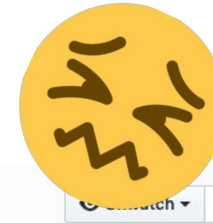
MagSpoof



El bonito esquemático



Me lleva la que...!



ElectronicCats / escornabot

forked from abierto-cc/escornabot

<> Code

Issues 0

Pull requests 0

Wiki

Security

Insights

Settings

Remove CS tracks to voltage

Browse files

master

sabas1080 committed on 10 Jun

1 parent 489aa2c

commit 553b818f7082f0f615081829c3babfcc4c822ad5

Showing 1 changed file with 555 additions and 558 deletions.

Unified Split

1,113 Makech/hardware/KiCad files/Makech.kicad_pcb

View on CADLAB.io

@@ -3,10 +3,10 @@

```
3 (general
4 (thickness 1.6)
5 (drawings 50)
6 - (tracks 1205)
7 (zones 0)
8 (modules 54)
9 - (nets 68)
10 )
11
12 (page A4)
```

```
3 (general
4 (thickness 1.6)
5 (drawings 50)
6 + (tracks 1191)
7 (zones 0)
8 (modules 54)
9 + (nets 69)
10 )
11
12 (page A4)
```

@@ -175,6 +175,7 @@

```
175 (net 65 /D32)
176 (net 66 /D36)
177 (net 67 /ESP_RESET)
```

```
175 (net 65 /D32)
176 (net 66 /D36)
177 (net 67 /ESP_RESET)
```

```
178
179 (net_class Default "This is the default net class.")
180 (clearance 0.2)
```

```
178 + (net 68 /ESP_CS)
179
180 (net_class Default "This is the default net class.")
181 (clearance 0.2)
```

@@ -208,6 +209,7 @@



Cadlab.io

Escornabot Makech - Circuit

d1e89661 [View History](#) [Create Account](#) or [Sign In](#)

16 layers 13 items [Newer](#) [Older](#)

Change List Annotations

- Board properties
- Module Connector_PinHeader_...
- Zone (diff-32)
- Zone (diff-54)
- Text (diff-77)
- Text (diff-78)
- Text (diff-79)
- Text (diff-80)
- Text (diff-81)
- Text (diff-82)
- Text (diff-83)
- Text (diff-84)
- Text (diff-85)

88.519 mm, 60.1 mm, 55 mm, 49.1 mm, 47.1 mm, 39.5 mm, 31.5 mm, 24 mm, 9 mm, 8.37 mm, 21.590 mm, 11.85 mm, 19.5 mm, 27.5 mm, 35.5 mm, 43 mm, 55 mm

Attribution-ShareAlike 4.0 International (CC BY-SA 4.0)
Edaundo Contreras
Joe
Andrés Salas
Electronic Cats

HELP

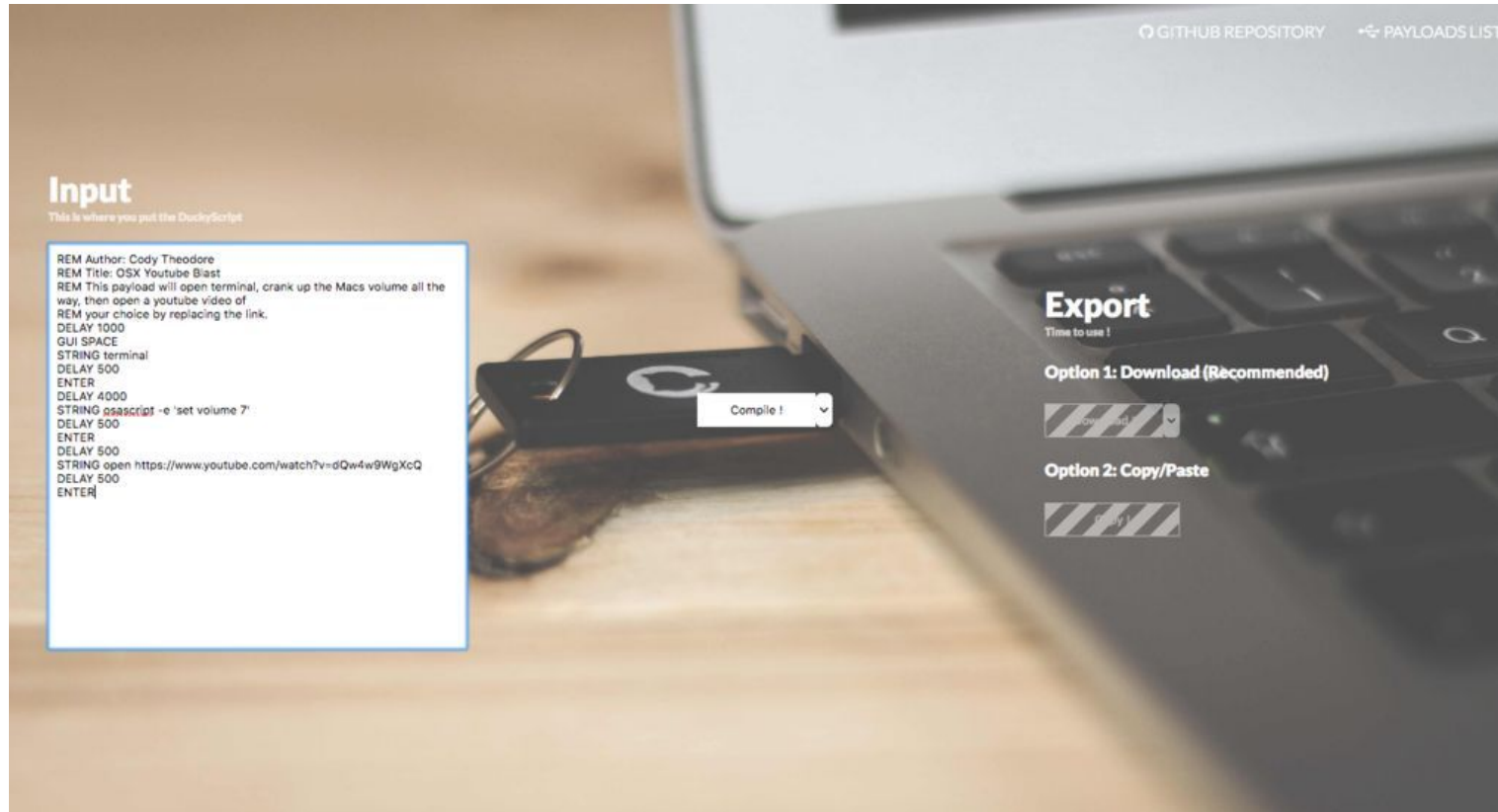
Report a bug



Meow
meow



Rubber Cat



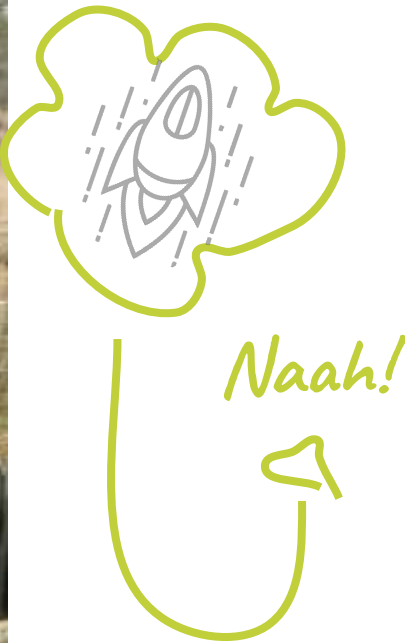
<https://www.instructables.com/id/Rubber-Cat-BadUSB-With-Meow-Meow/>



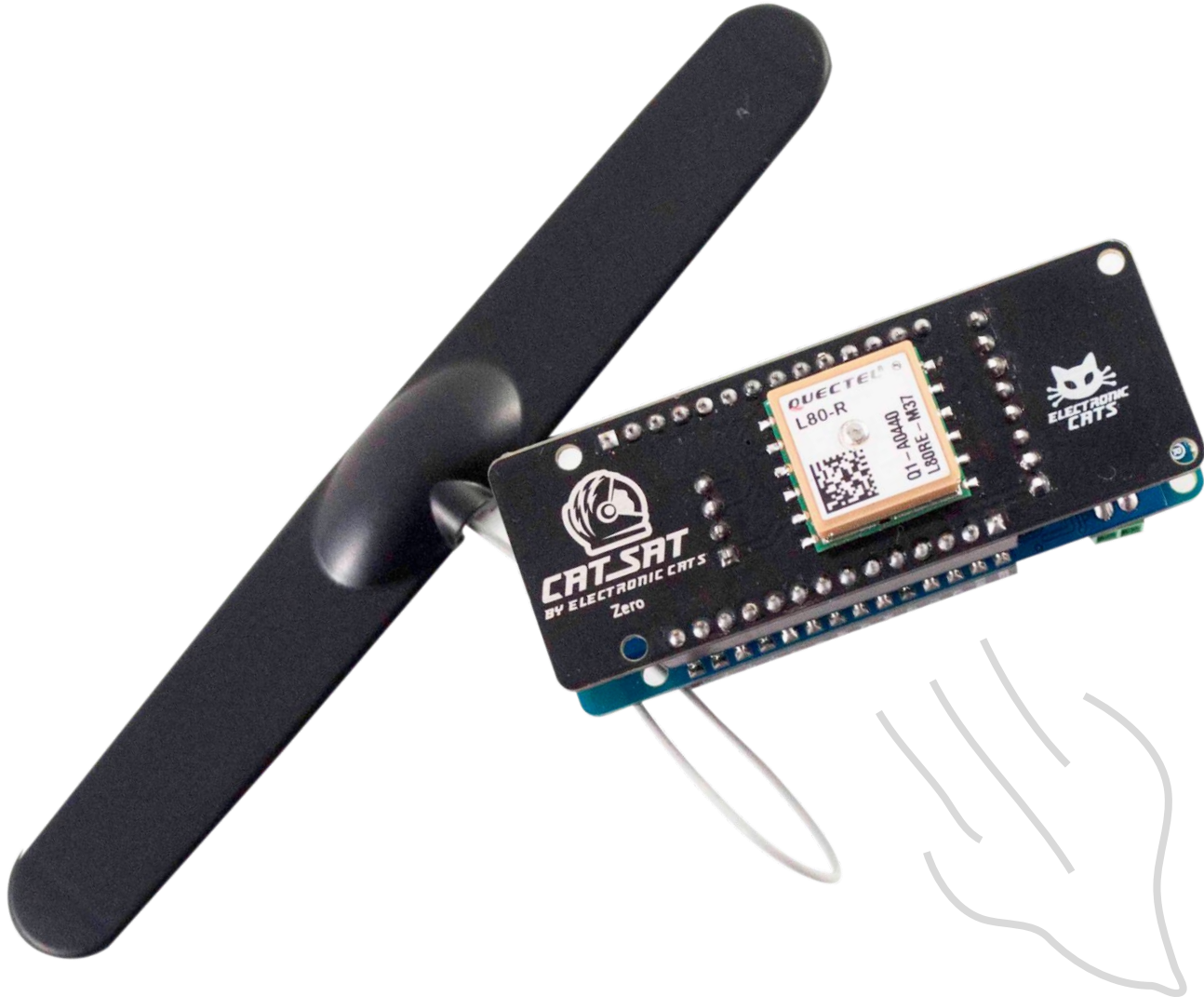
CatSat 1



CatSat 1



Educación y nuevas oportunidades



MakeCode

The screenshot displays the MakeCode web interface for an Arduino project. The top navigation bar includes a 'Beta' badge, 'Home', and 'Share' buttons, along with a 'Blocks' tab and a 'JavaScript' tab. The Microsoft logo is visible in the top right corner. On the left, there is a breadboard with a cat-shaped sensor module connected to it. Below the breadboard are various utility icons. The main workspace is filled with block-based code. The code consists of several 'on touch' blocks (purple) connected to 'keyboard client' blocks (orange). The blocks are configured as follows:

- on touch A0 down → keyboard client → media key mute press
- on touch A5 down → keyboard client → key "a" press
- on touch A1 down → keyboard client → media key volume up press
- on touch A2 down → keyboard client → media key press
- on touch A3 down → keyboard client → key "b" press
- on touch A4 down → keyboard client → key "b" press

At the bottom, there is a 'Download' button and a file name field labeled 'Untitled'.

<https://maker.makecode.com>



Nuestras Contribuciones

Paquete de Makecode para LoRa

<https://github.com/ElectronicCats/pxt-lora>

Paquete de Makecode para GPS

<https://github.com/ElectronicCats/pxt-gps>

Paquete de Makecode para Calidad del Aire

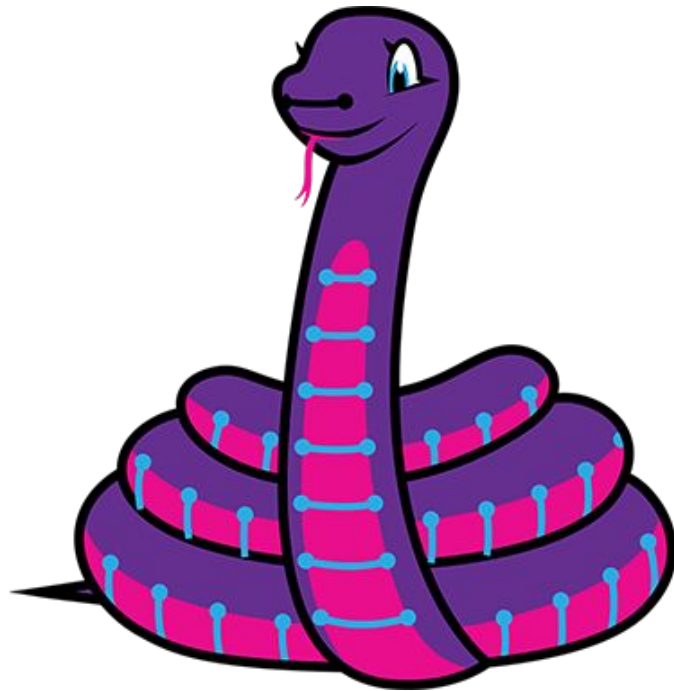
<https://github.com/ElectronicCats/pxt-airQuality>

Paquete de Makecode para BME280

<https://github.com/ElectronicCats/pxt-bme280>



CircuitPython



circuit
python

Aportaciones:

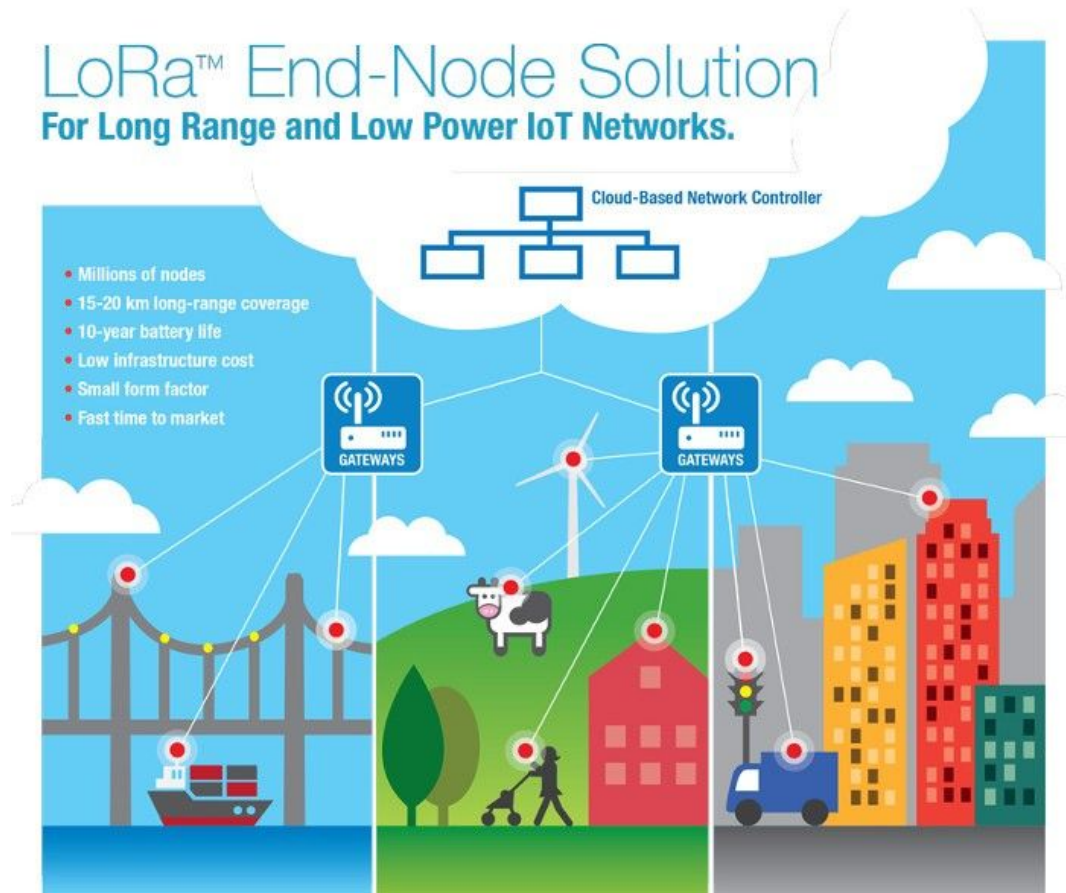
Traducción al Español

Tarjetas de Electronic Cats

<https://github.com/adafruit/circuitpython>

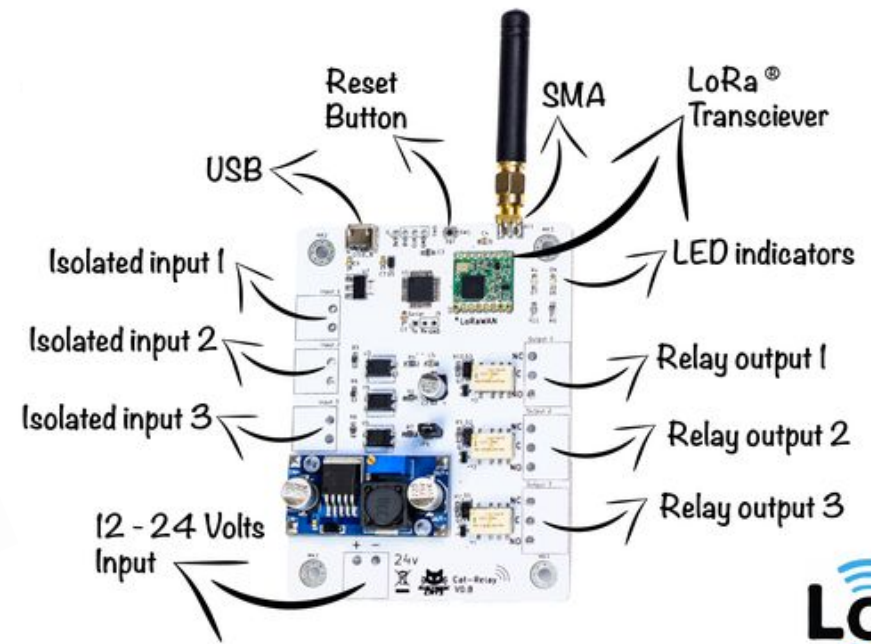


LoRaWAN



- Red de Internet de las Cosas
- Largo Alcance
- Bajo Consumo
- 244 bytes
- Encriptacion AES128

CatWAN



Library Arduino

Biblioteca de Arduino para LoRaWAN

<https://github.com/BeelanMX/arduino-LoRaWAN>

Biblioteca de Arduino para redes de bajo consumo

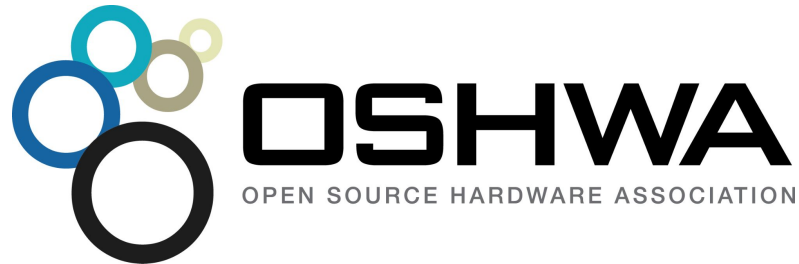
<https://github.com/ElectronicCats/CayenneLPP>

Biblioteca de Arduino para sensor MPU6050

<https://github.com/ElectronicCats/mpu6050>



Certificación



<https://www.oshwa.org/>

Mexico

Mexico has also produced a range of certified open source hardware. A recent certification is the [Meow Meow](#), a capacitive touch interface from [Electronic Cats](#). Meow Meow makes it easy to use a wide range of objects —bananas are always a favorite—as controllers for your computer.



Meow Meow



¿Qué se requiere?

- Datos basicos (Nombre, Empresa, Direccion...).
- Nombre de Proyecto y versión.
- Descripción del proyecto
- Repositorio o link:
 - Esquemáticos disponibles para todos.
 - Archivos bajo una licencia de hardware libre.
 - Tipo de proyecto
 - Licencia de software
- Decir la verdad :v

Lo privado puede financiar lo abierto

Skimmers



ATM Skimming

Skimming is an illegal activity that involves the installation of a device, usually undetectable by ATM users, that secretly records bank account data when the user inserts an ATM card into the machine. Criminals can then encode the stolen data onto a blank card and use it to loot the customer's bank account.

1 Hidden camera

A concealed camera is typically used in conjunction with the skimming device in order to record customers typing their PIN into the ATM keypad. Cameras are usually concealed somewhere on the front of the ATM—in this example, just above the screen in a phony ATM part—or somewhere nearby (like a light fixture).

2 Skimmer

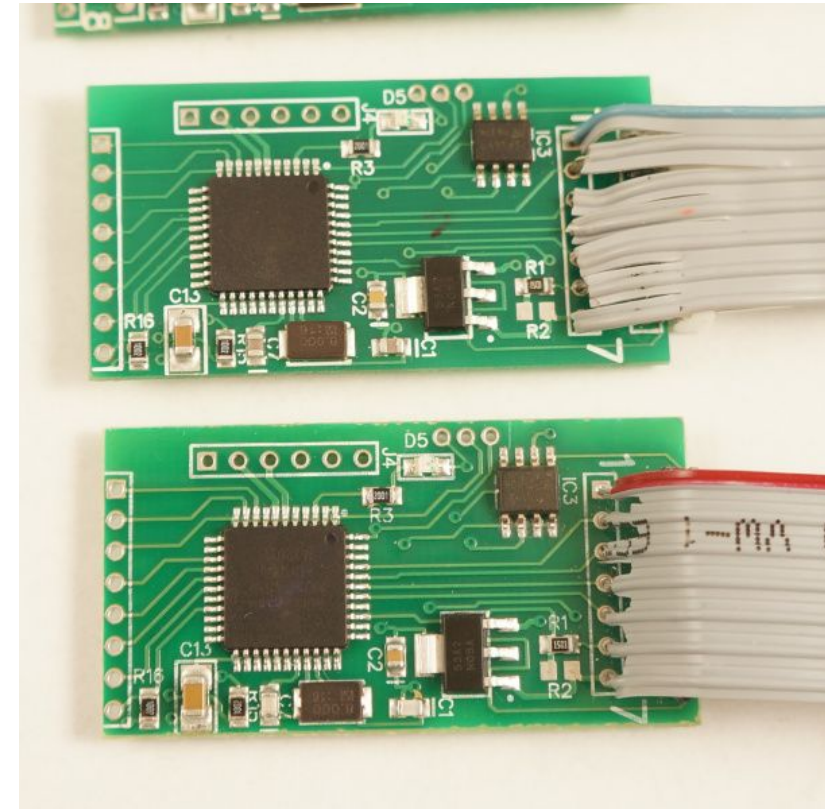
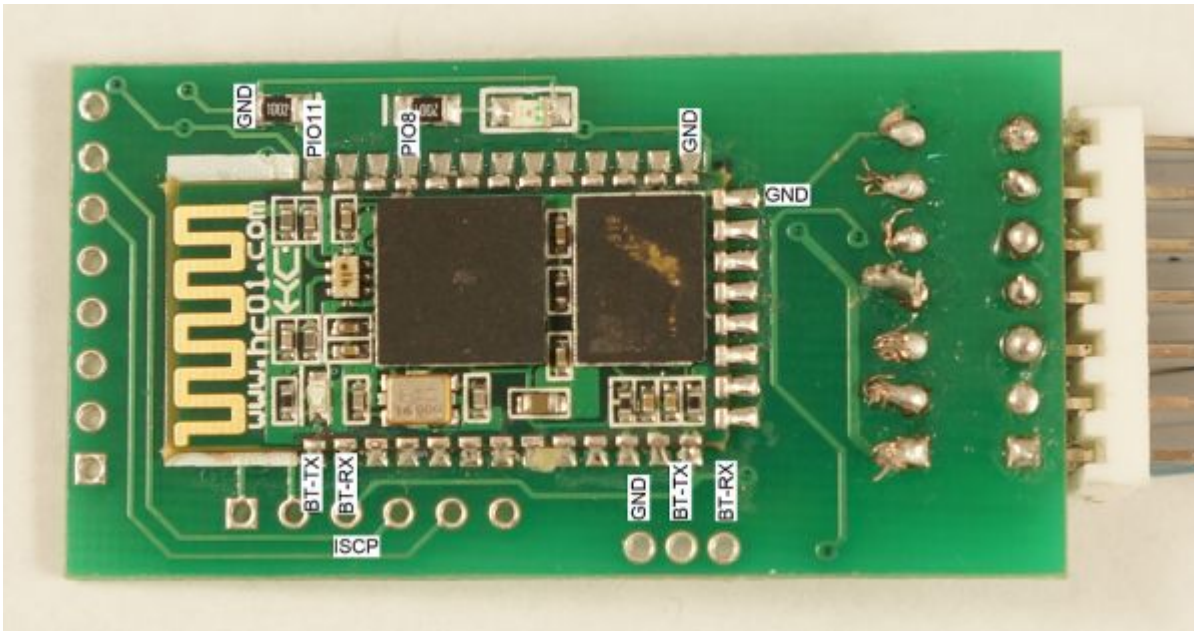
The skimmer, which looks very similar to the original card reader in color and texture, fits right over the card reader—the original card reader is usually concave in shape (curving inward), while the skimmer is more convex (curving outward). As customers insert their ATM card, bank account information on the card is “skimmed,” or stolen, and usually stored on some type of electronic device.

3 Keypad overlay

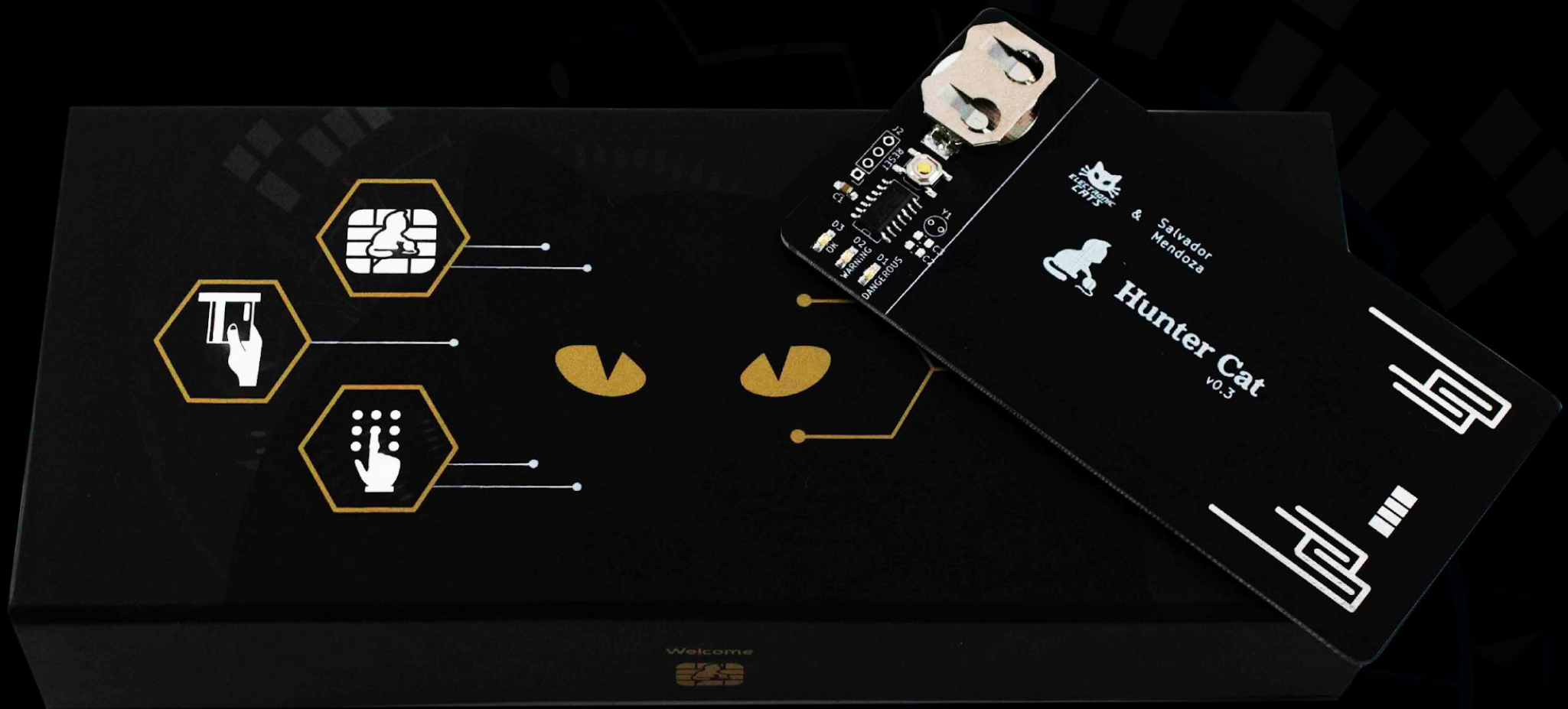
The use of a keypad overlay—placed directly on top of the factory-installed keypad—is a fairly new technique that takes the place of a concealed camera. Instead of visually recording users punching in their PINs, circuitry inside the phony keypad stores the actual keystrokes.



Bluetooth



<https://learn.sparkfun.com/tutorials/gas-pump-skimmers>



 **Hunter Cat**

Best skimmer hunter

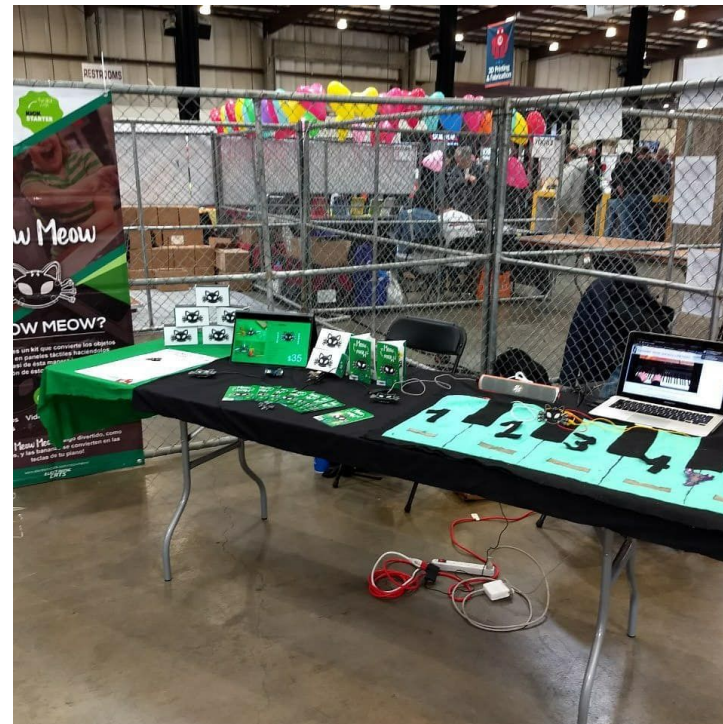
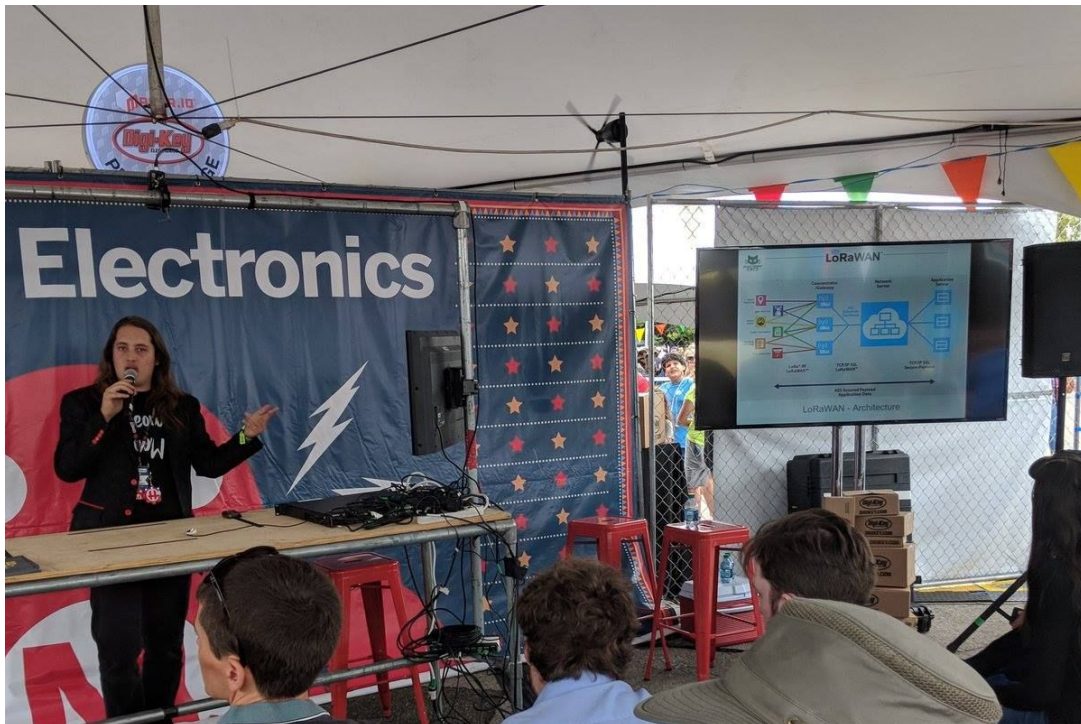
Skimmers Cozumel Tour!



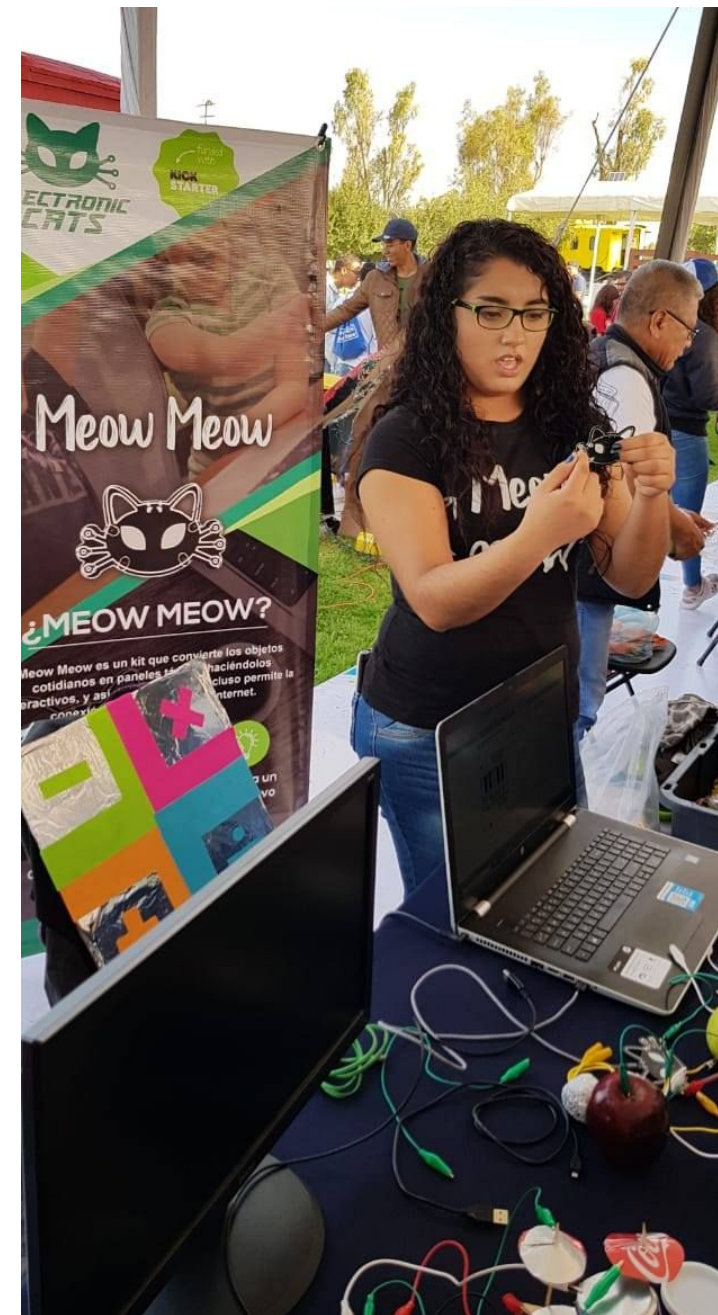
No señor policiaaaa!



Eventos



- Maker Faire New York
- Maker Faire Roma
- Maker Faire San Francisco
- Maker Faire León
- Talent Land, Guadalajara
- KicadCON Chicago
- Bett Londres
- CCOSS!!
- Maker Jalisco



Comunidad



Hardware Para Internet de las Cosas



CC  SS

Contáctanos

hola@electroniccats.com
www.electroniccats.com



Electroniccats



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