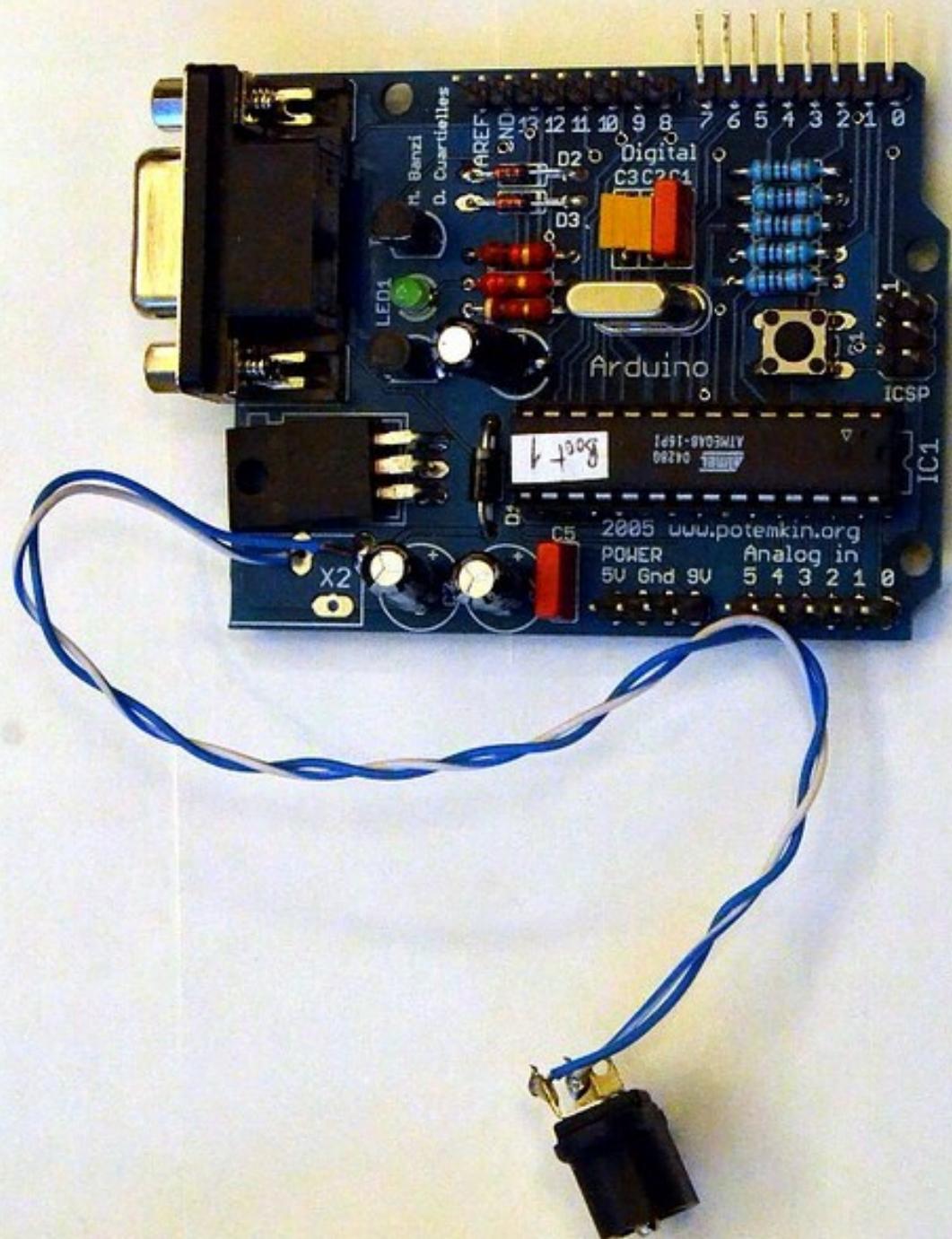
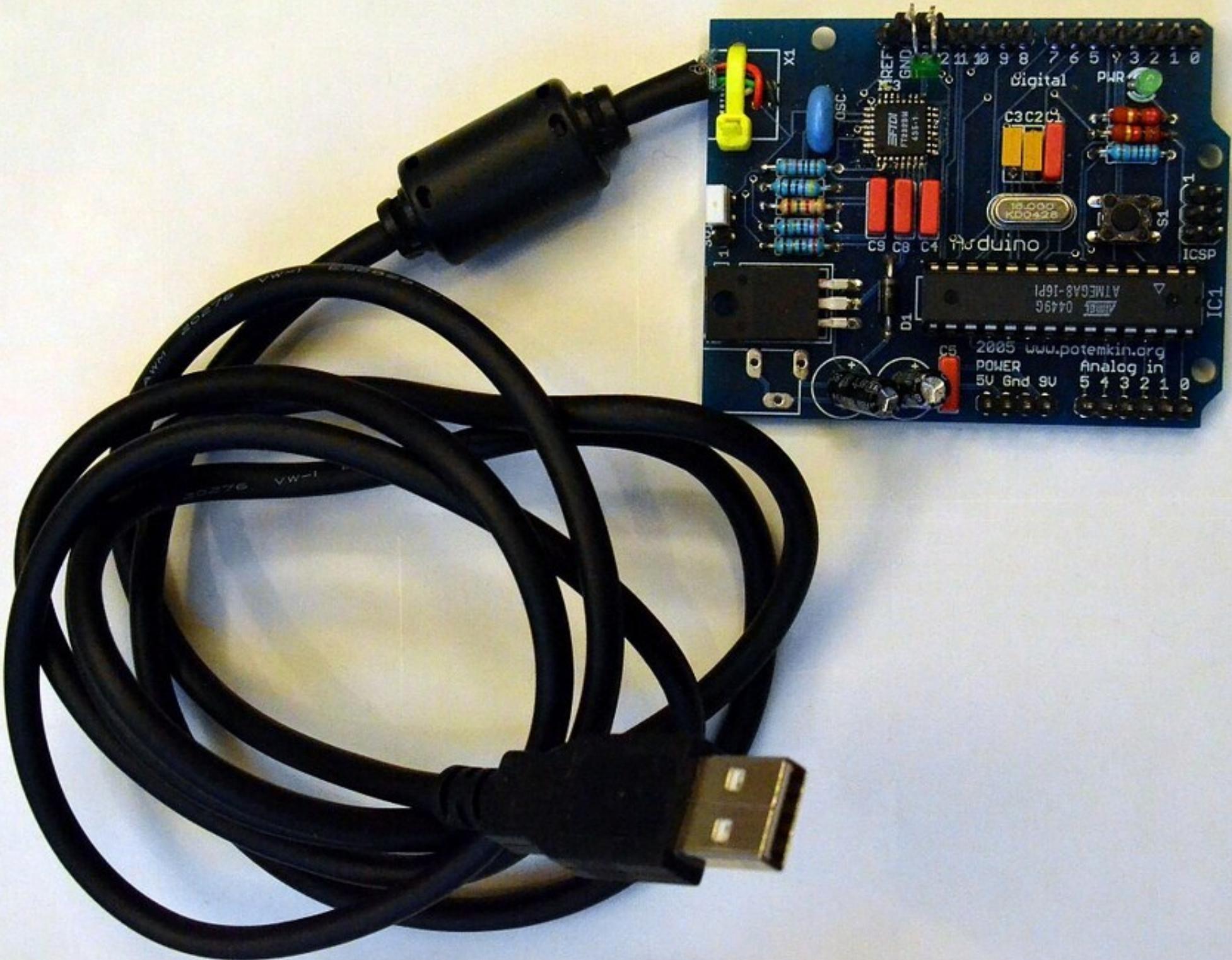


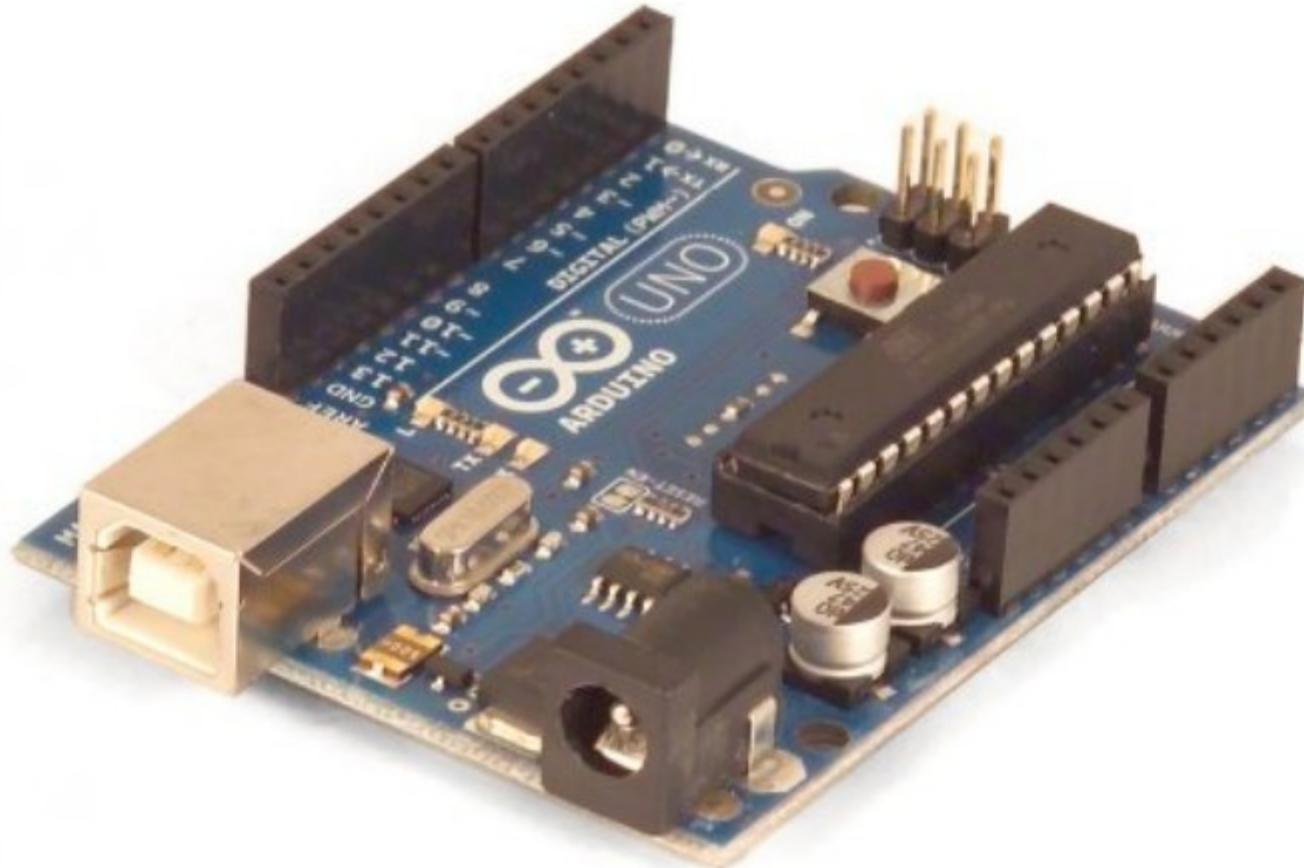
DISCLAIMER

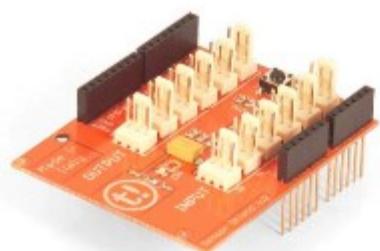
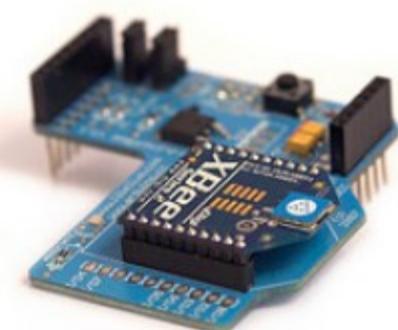
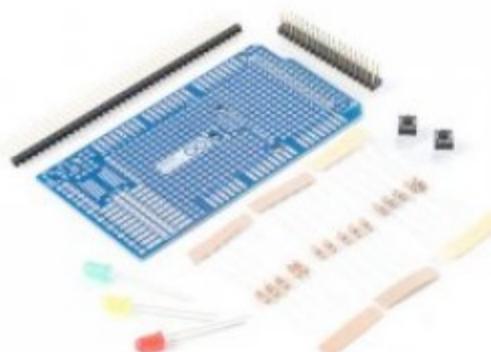
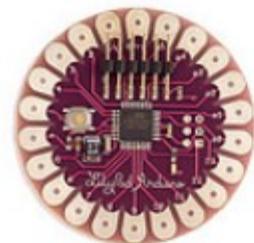
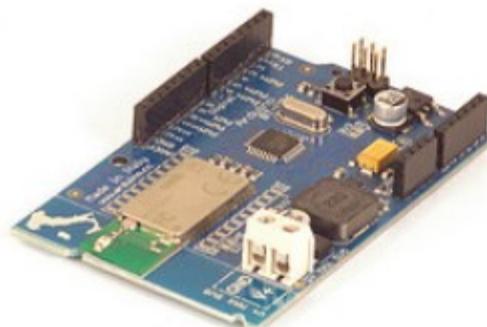
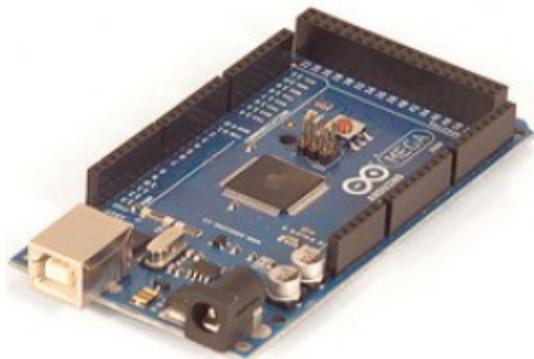
do NOT try to make the things you'll see in the show without help from an adult, ask a professor, a senior fellow or your granddad

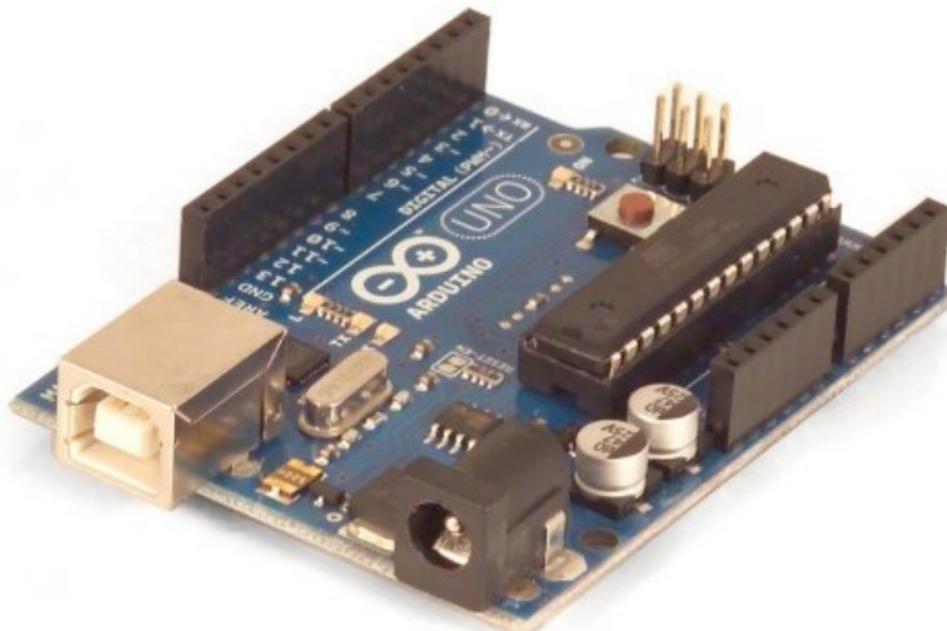
do NOT use this for medical applications, do not lick batteries, do not put your wet fingers into power-plugs, not swallow parts, wires are not candy...











Blink | Arduino 0021

File Edit Sketch Tools Help

Blink

```
/*
Blink
Turns on an LED on for one second, then off for one second, repeatedly.

This example code is in the public domain.
*/

void setup() {
  // initialize the digital pin as an output.
  // Pin 13 has an LED connected on most Arduino boards:
  pinMode(13, OUTPUT);
}

void loop() {
  digitalWrite(13, HIGH);      // set the LED on
  delay(1000);                // wait for a second
  digitalWrite(13, LOW);       // set the LED off
  delay(1000);                // wait for a second
}
```

Arduino - HomePage

arduino.cc

Main Site Blog Playground Forum Help | Sign in or Register

ARDUINO

Buy Download Getting Started Learning Reference Hardware FAQ

Arduino is an open-source electronics prototyping platform based on flexible, easy-to-use hardware and software. It's intended for artists, designers, hobbyists, and anyone interested in creating interactive objects or environments.

Arduino can sense the environment by receiving input from a variety of sensors and can affect its surroundings by controlling lights, motors, and other actuators. The microcontroller on the board is programmed using the [Arduino programming language](#) (based on [Wiring](#)) and the Arduino development environment (based on [Processing](#)). Arduino projects can be stand-alone or they can communicate with software running on a

Community



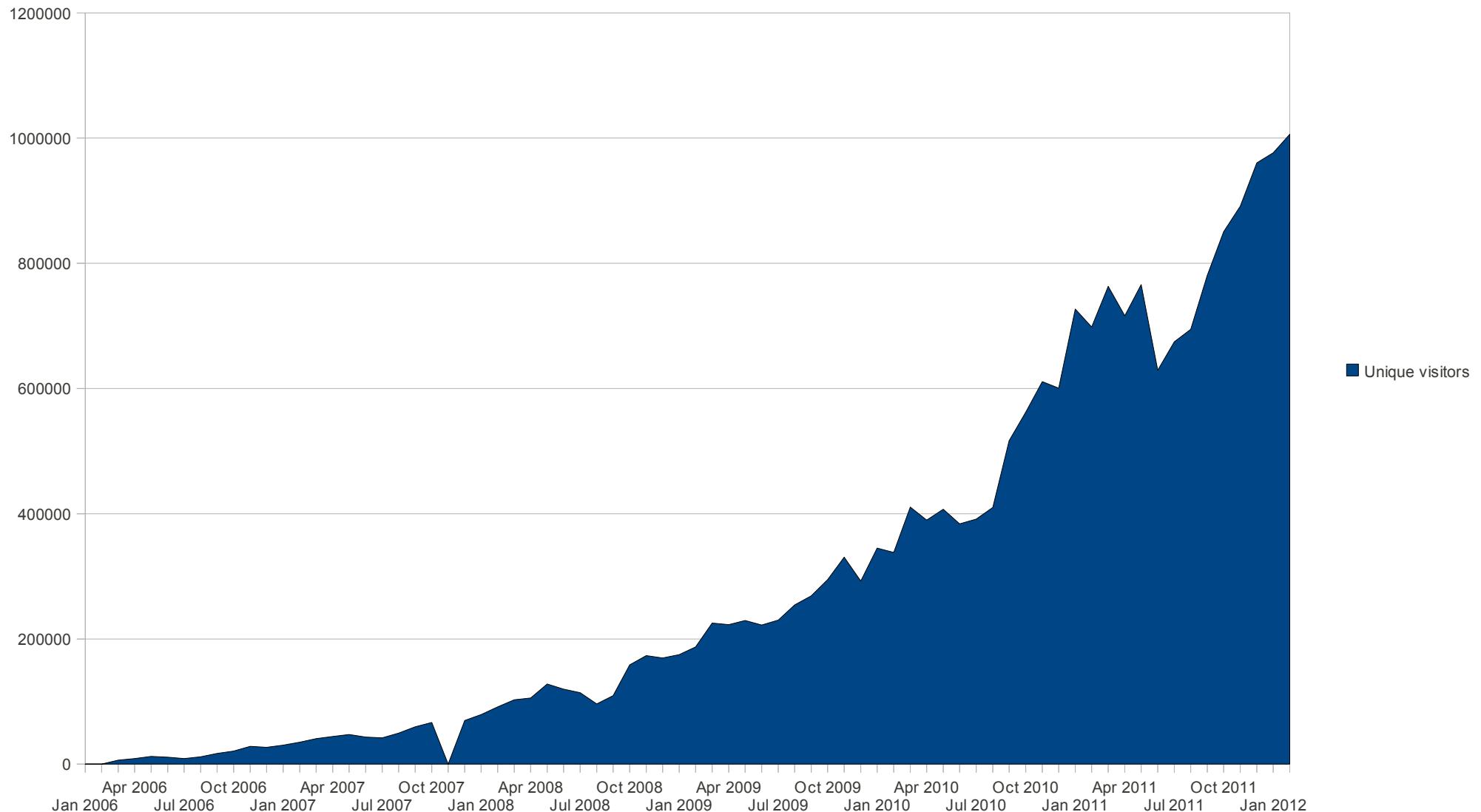
And this adds up to ...

450.000 units

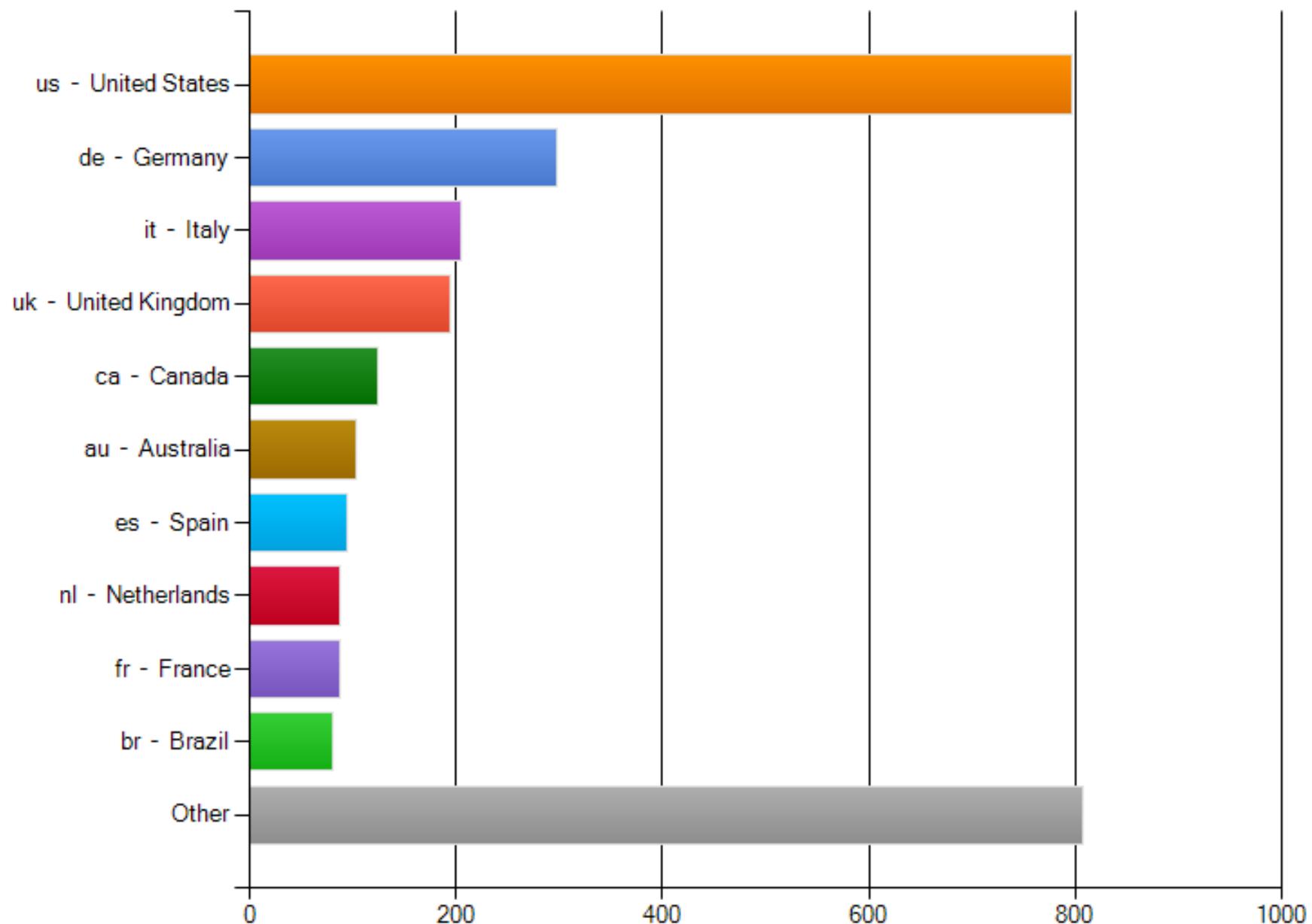
between Sept 2005 and Mar 2012

Arduino Web Stats

Unique IPs 2006-2012

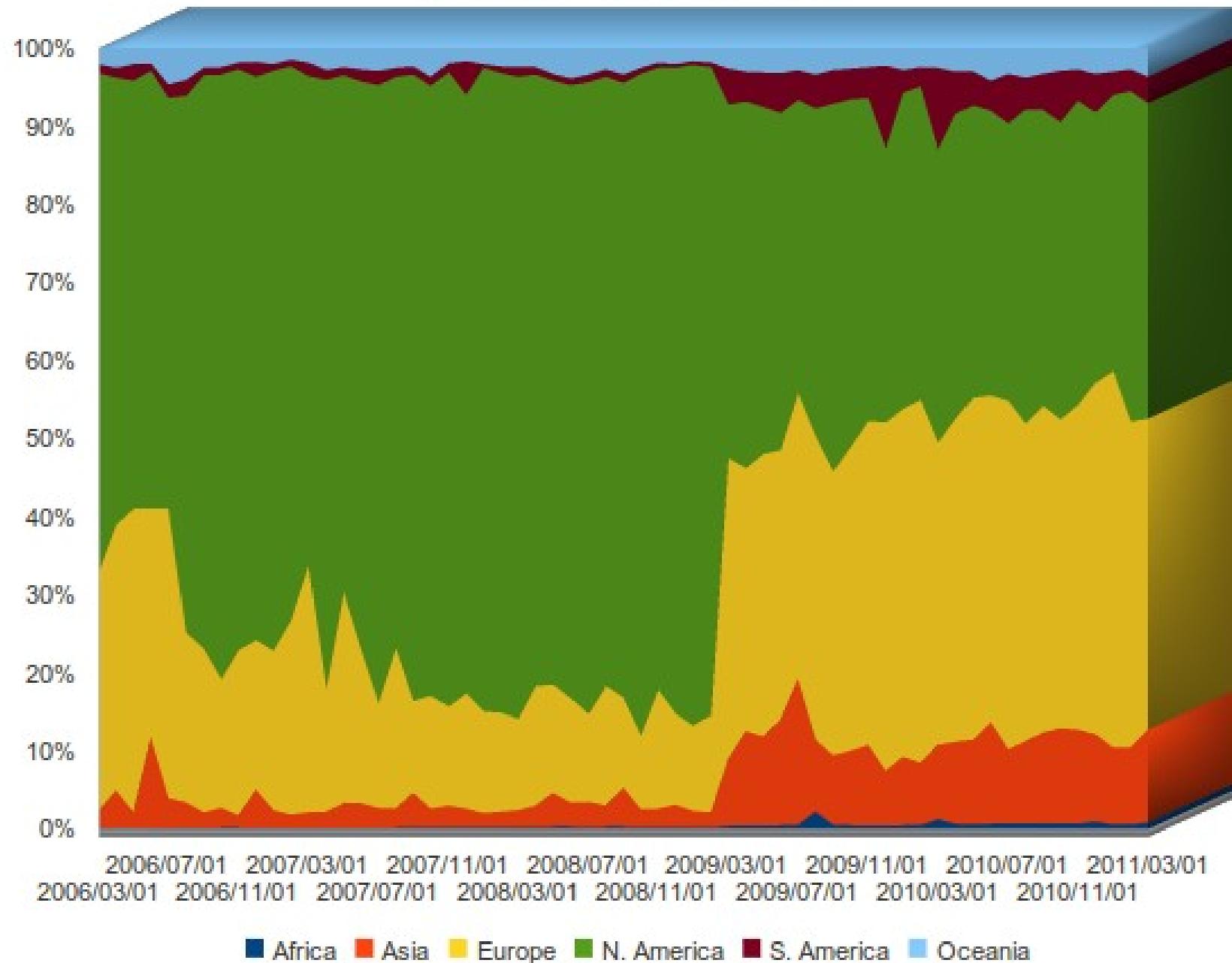


Where do you live?



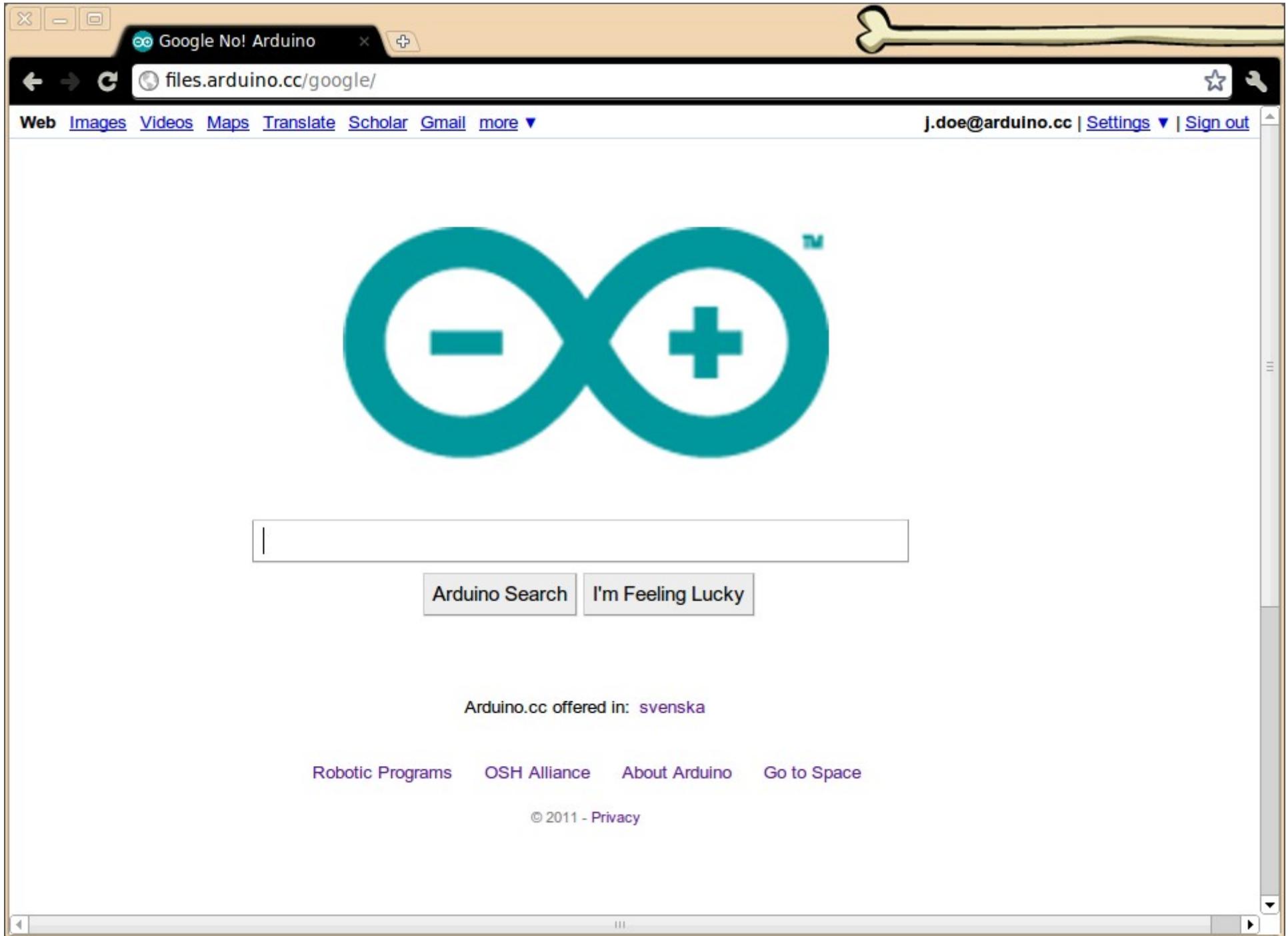
Percentage distribution users by month

arduino.cc 2006/03 - 2011/03



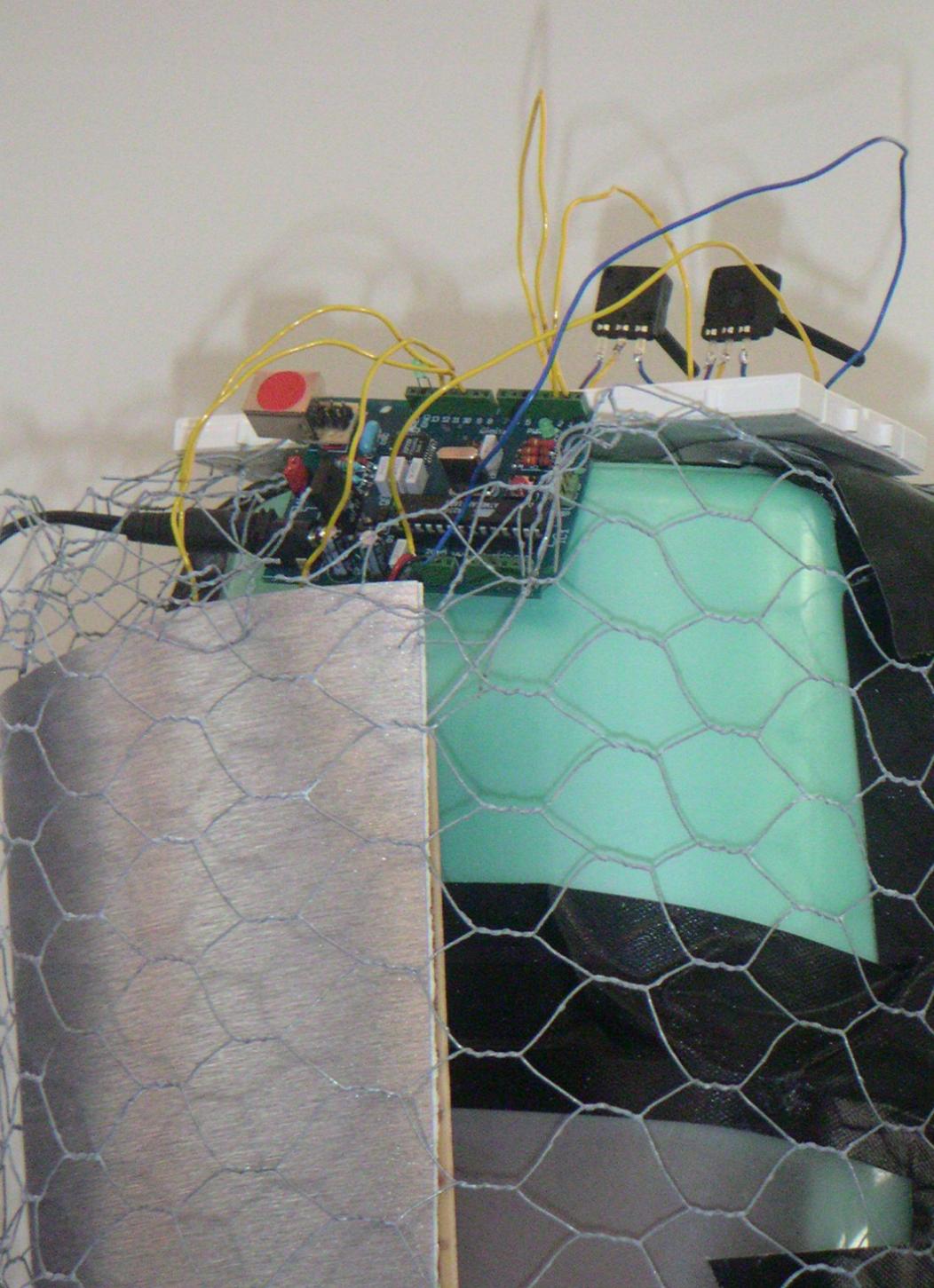
Arduino user:

- 1) *male 20 - 40*
- 2) *interest in technology*
- 3) *windows user but with Firefox*
- 4) *without prior experience in digital electronics*
- 5) *with some experience in software*
- 6) *with internet connection*
- 7) *likes google a lot*



What is that people do?

- 1) learning*
- 2) information systems*
- 3) having fun*
- 4) robots*
- 5) art installations*
- 6) music*
- 7) wireless sensor networks*



source: K3 - 2005



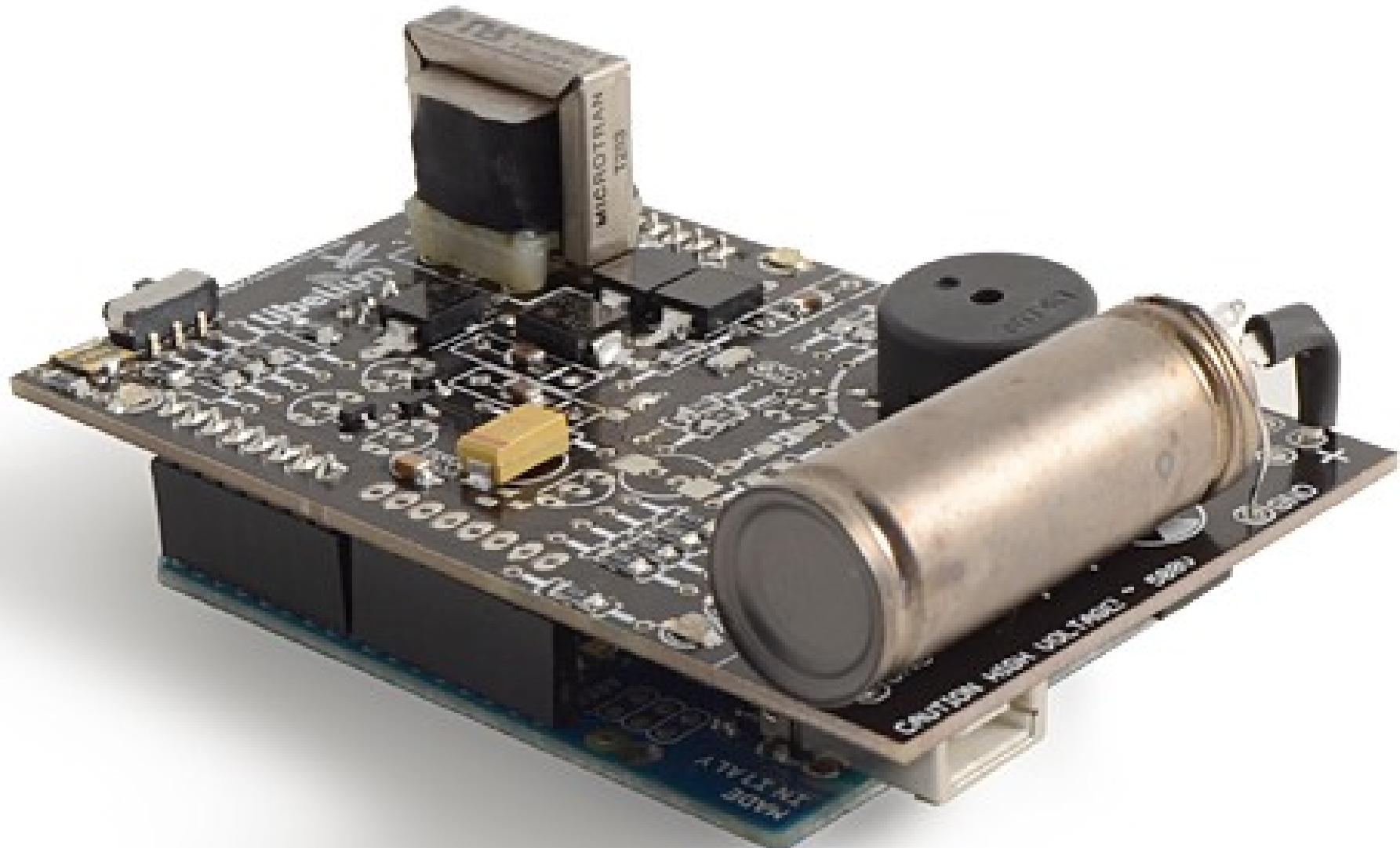
source: K3 - 2005



<https://twitter.com/#!/alarmasismos>



source: Sebastian, Chile - 2011



source: *Libelium* - 2011

Japan Geigermap : At-a-glance

Search for an address:

Search



Select data source:

All data sources

Safecast Fixed Sensor Network

Individual Geiger Counters

Government Sensor Networks

Most recent reading:

Thu, 22 Mar 2012 08:18:09 GMT

日本語 | Eng

This map was
sourced from
counter reports
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source of error.

The numbers fluctuate depending on the data fed into the official government statistics, the rest are estimates such as those from universities concerned.

Readings

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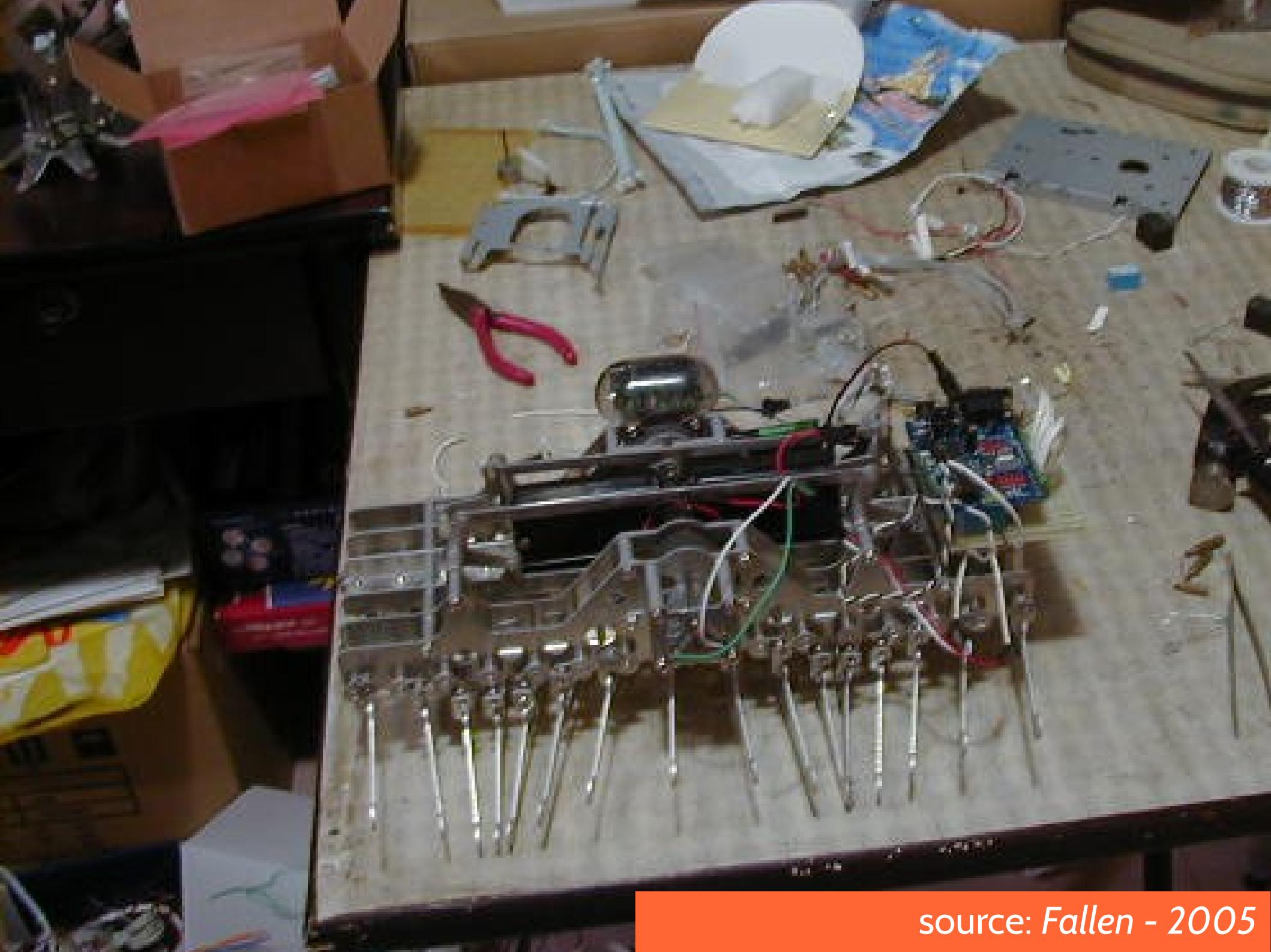
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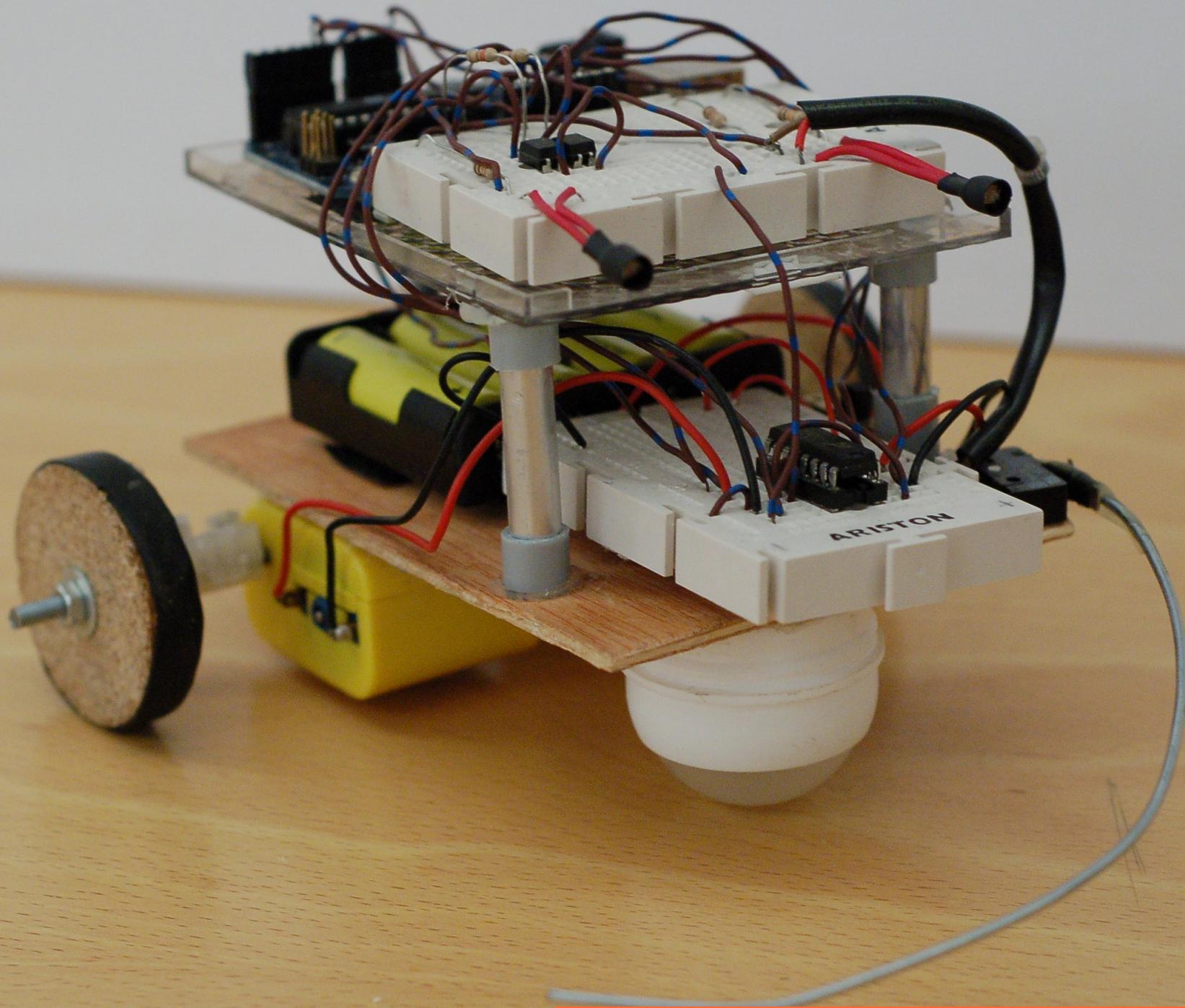
Map | Satellite

[Map](#) [Satellite](#)

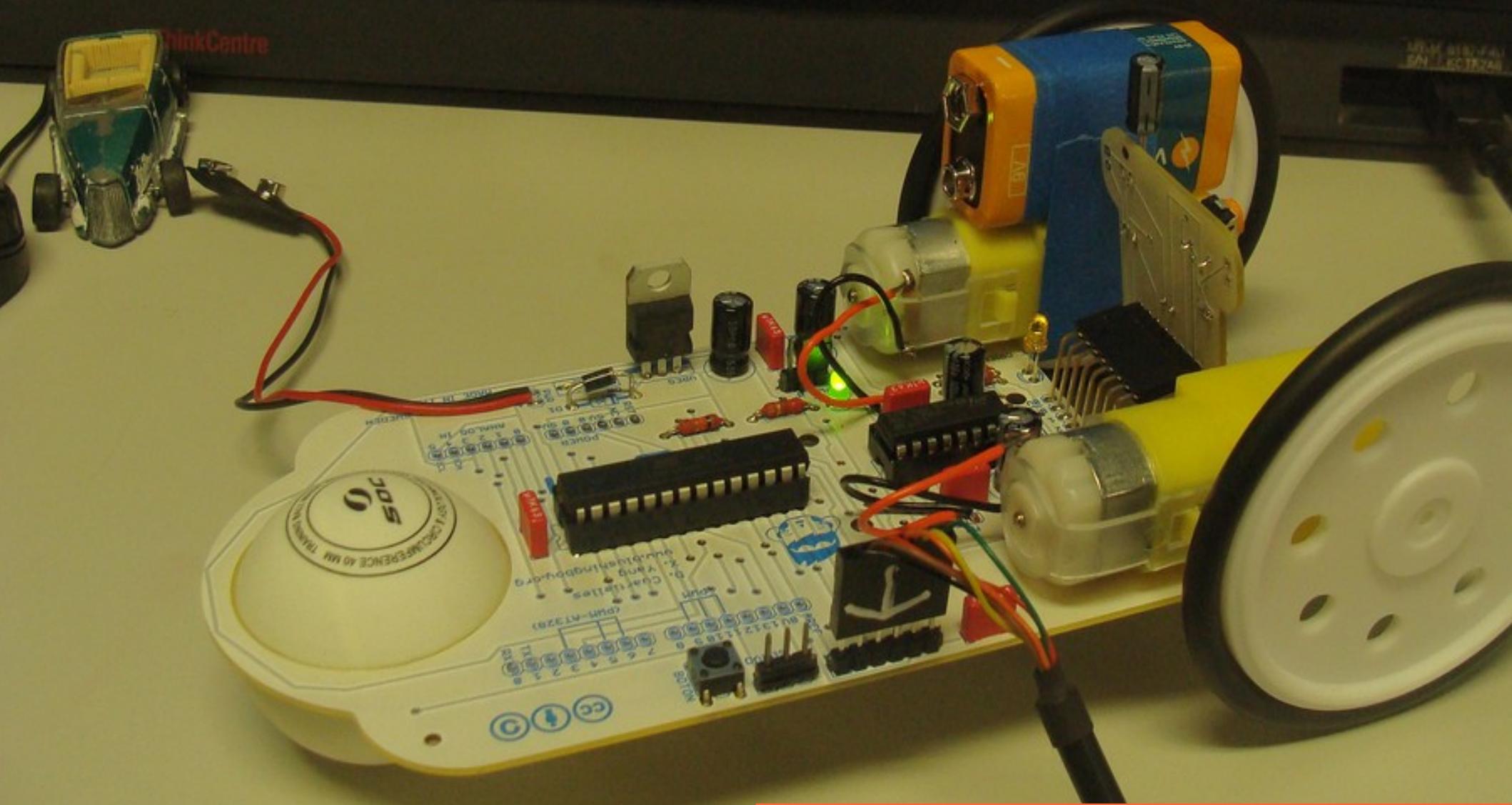
source: failedrobot.com - 2012



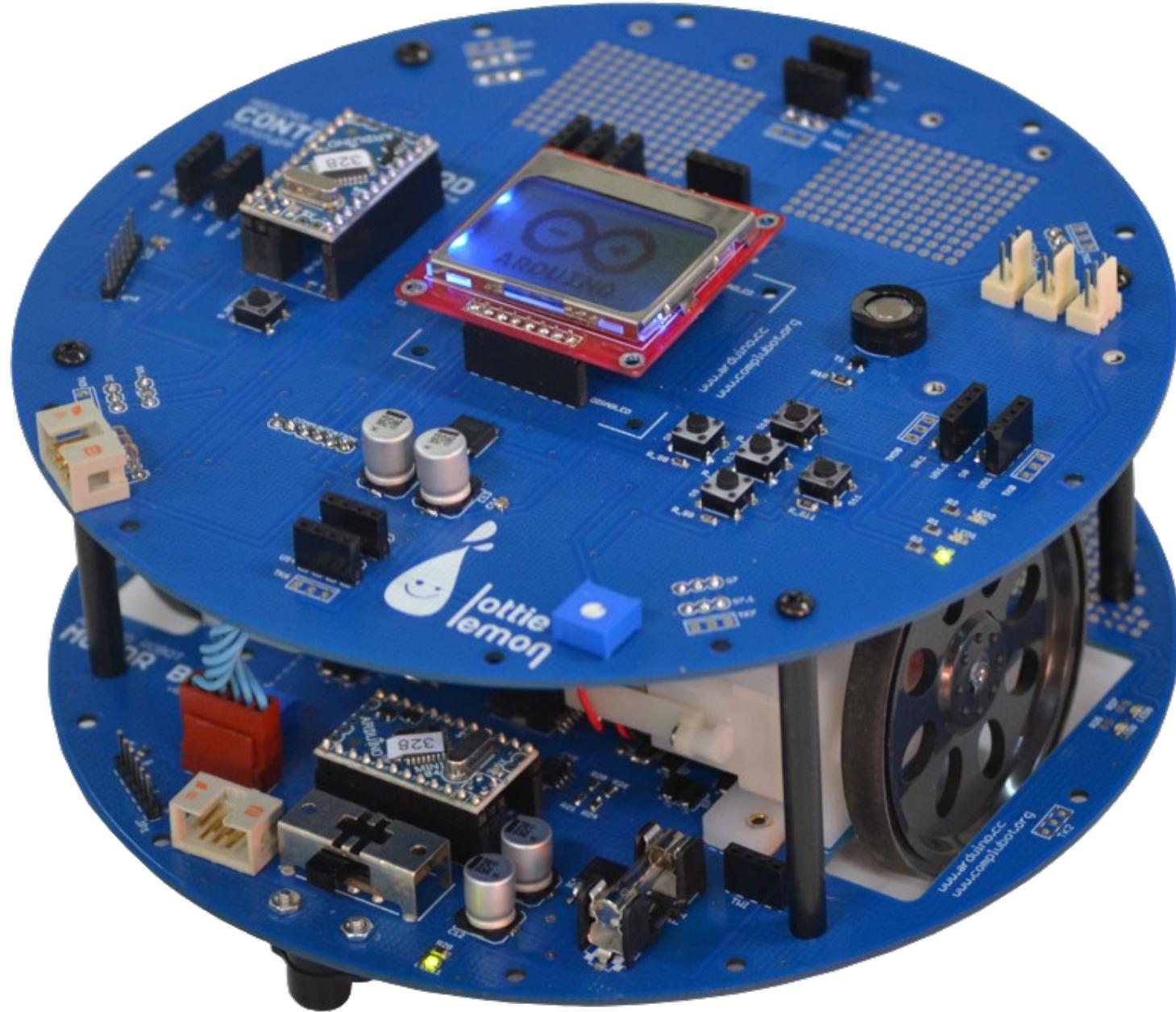
source: Fallen - 2005



source: J.C. Alonso - 2006



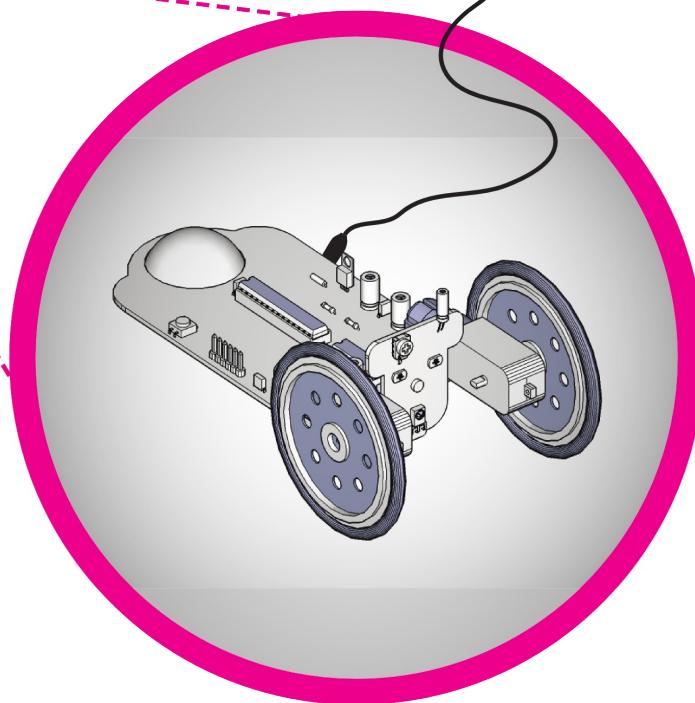
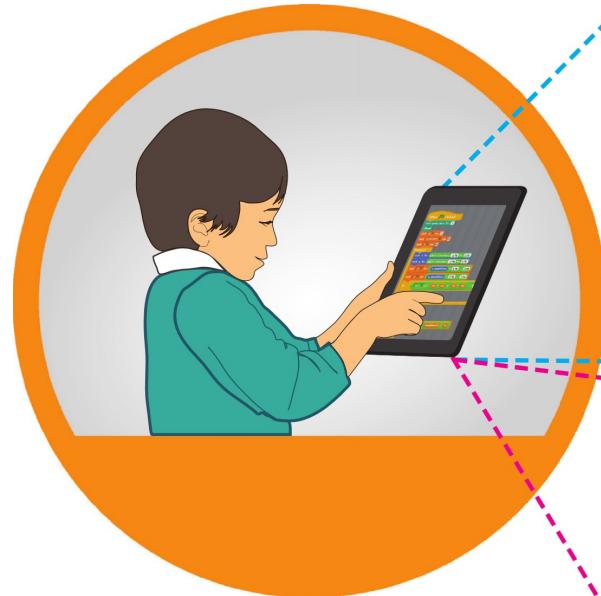
source: *Cuartielles* - 2010



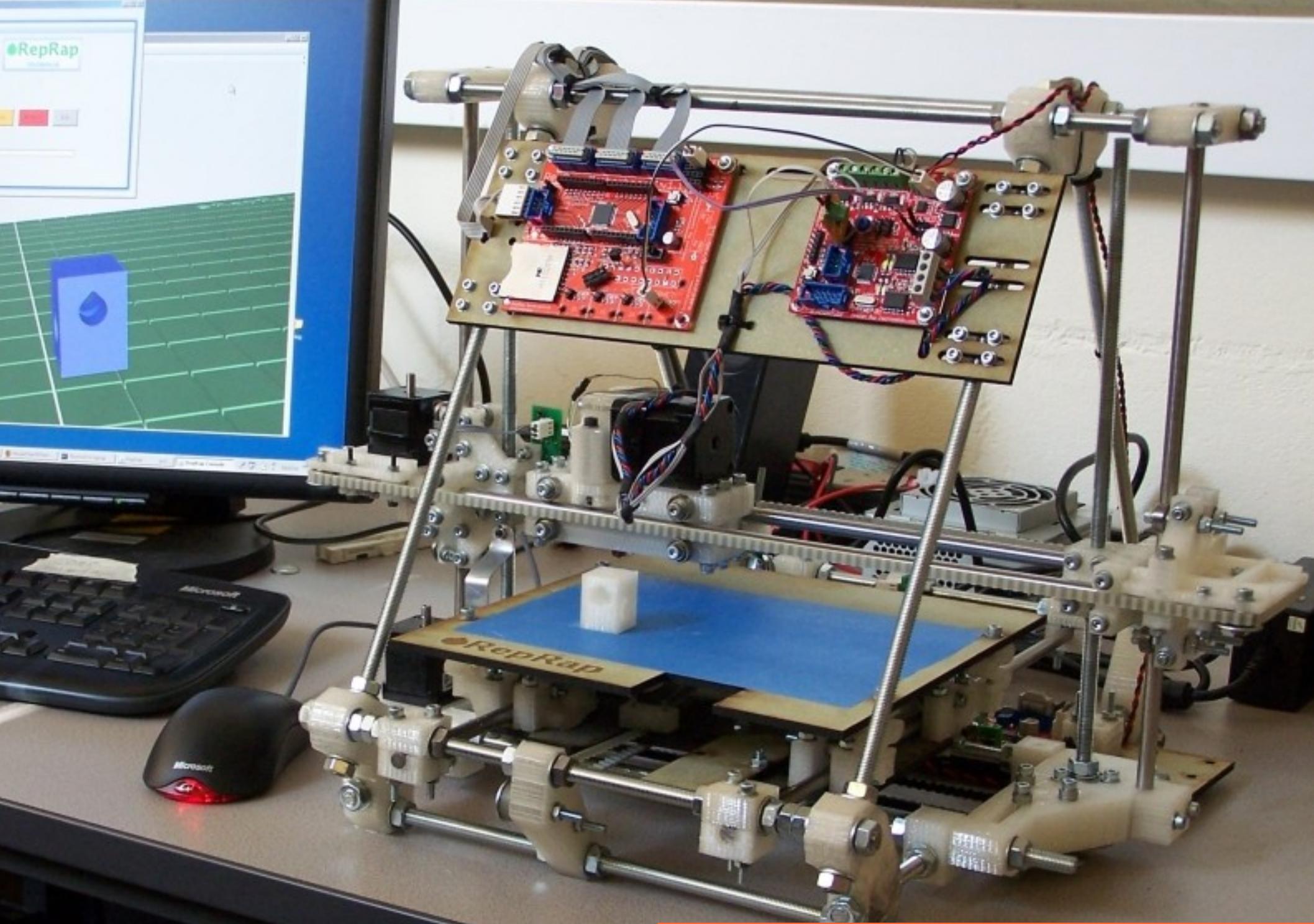
source: Complubot.org - 2012



source: Complubot.org - 2008



source: *Arduino.cc* - 2012



source: A. Bowyer - 2011



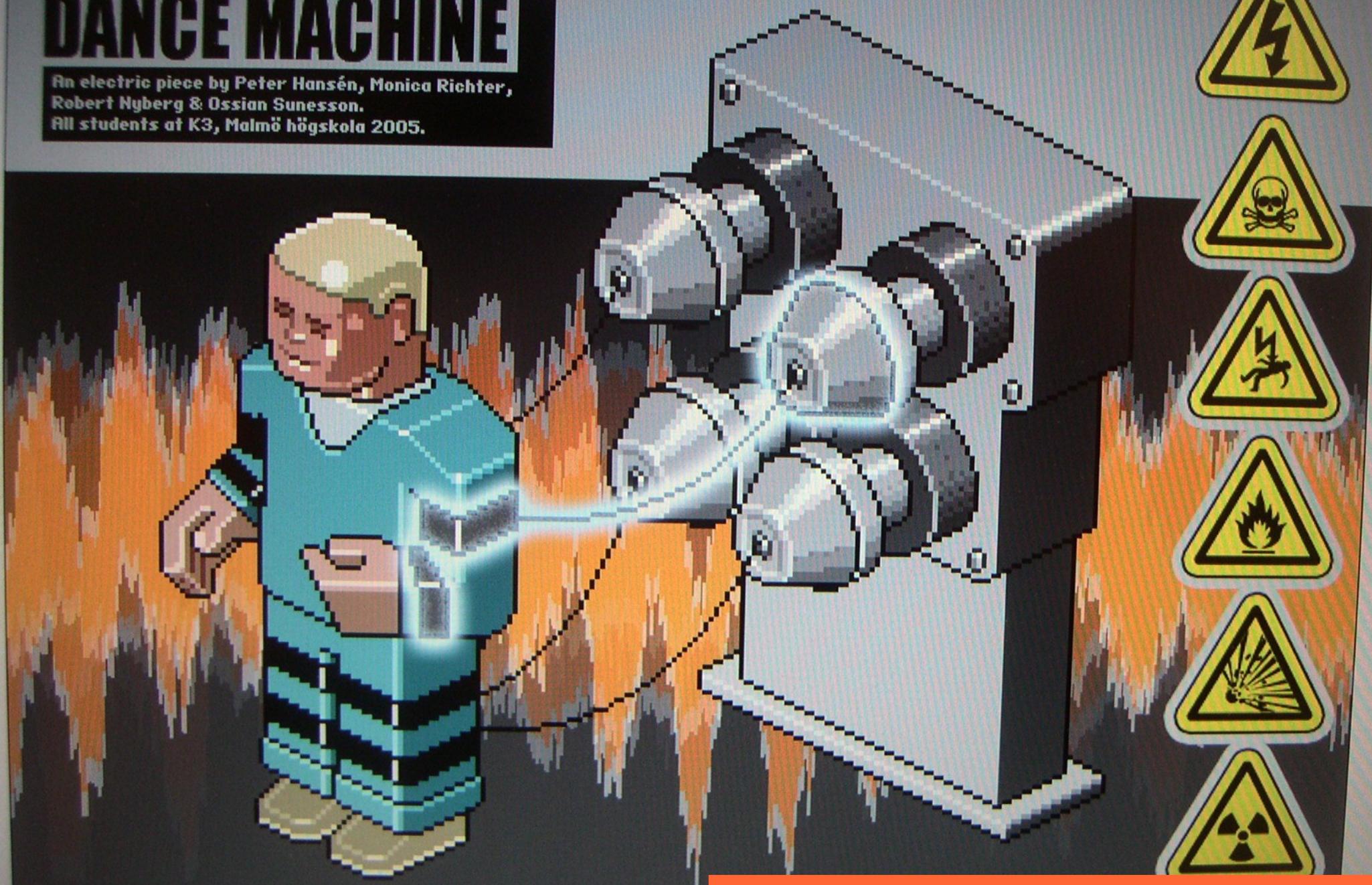
source: D. Palacios - 2011



source: K3 - 2006

THE INVOLUNTARY DANCE MACHINE

An electric piece by Peter Hansén, Monica Richter,
Robert Nyberg & Ossian Sunesson.
All students at K3, Malmö högskola 2005.



source: K3 - 2006

ARDUINO and the Internet of Things

- 1) *using Android phones over BT*
- 2) *using Android phones and one of the multiple wired connection methos*
- 3) *using the iPhone Redpark Serial Cable*
- 4) *using GPRS/GSM modems*

ARDUINO BT BOARD



SHIELD FOR ARDUINO

ANDROID PHONE (NEXUS ONE)

ÅTERLÄMNAS TILL

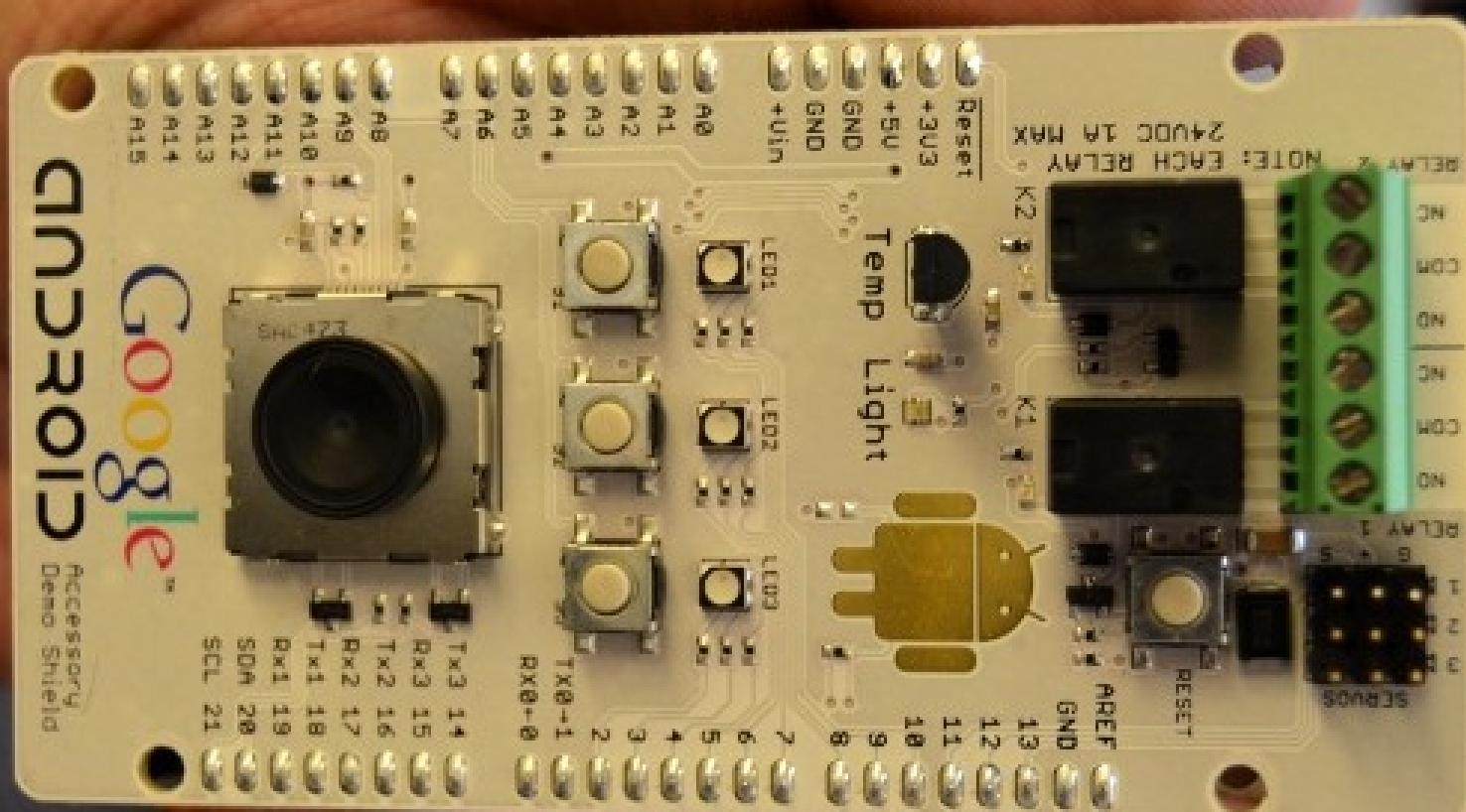
KITS

PONSAB

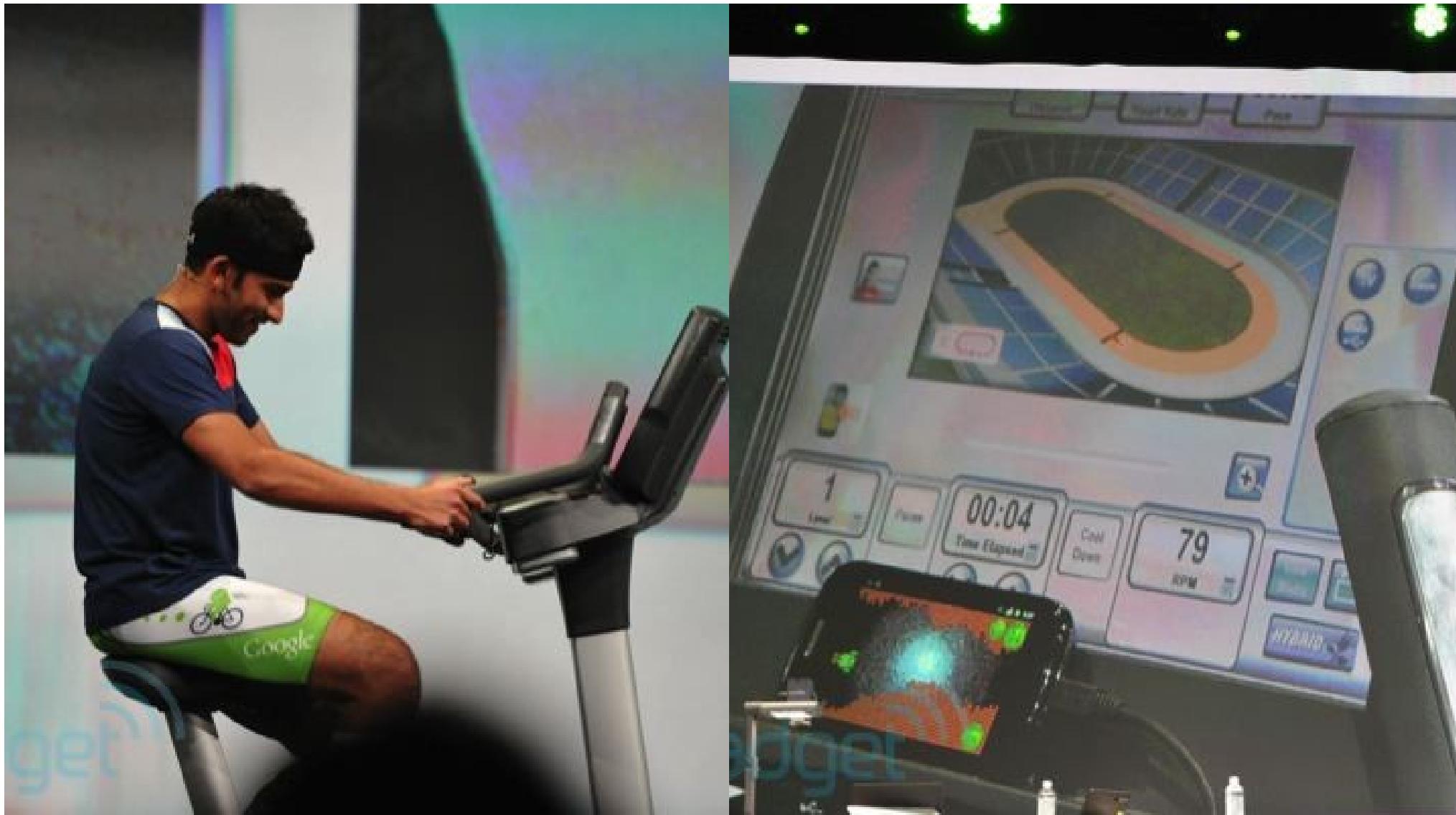
040-93 55 90
042-29 02 92

CABLES

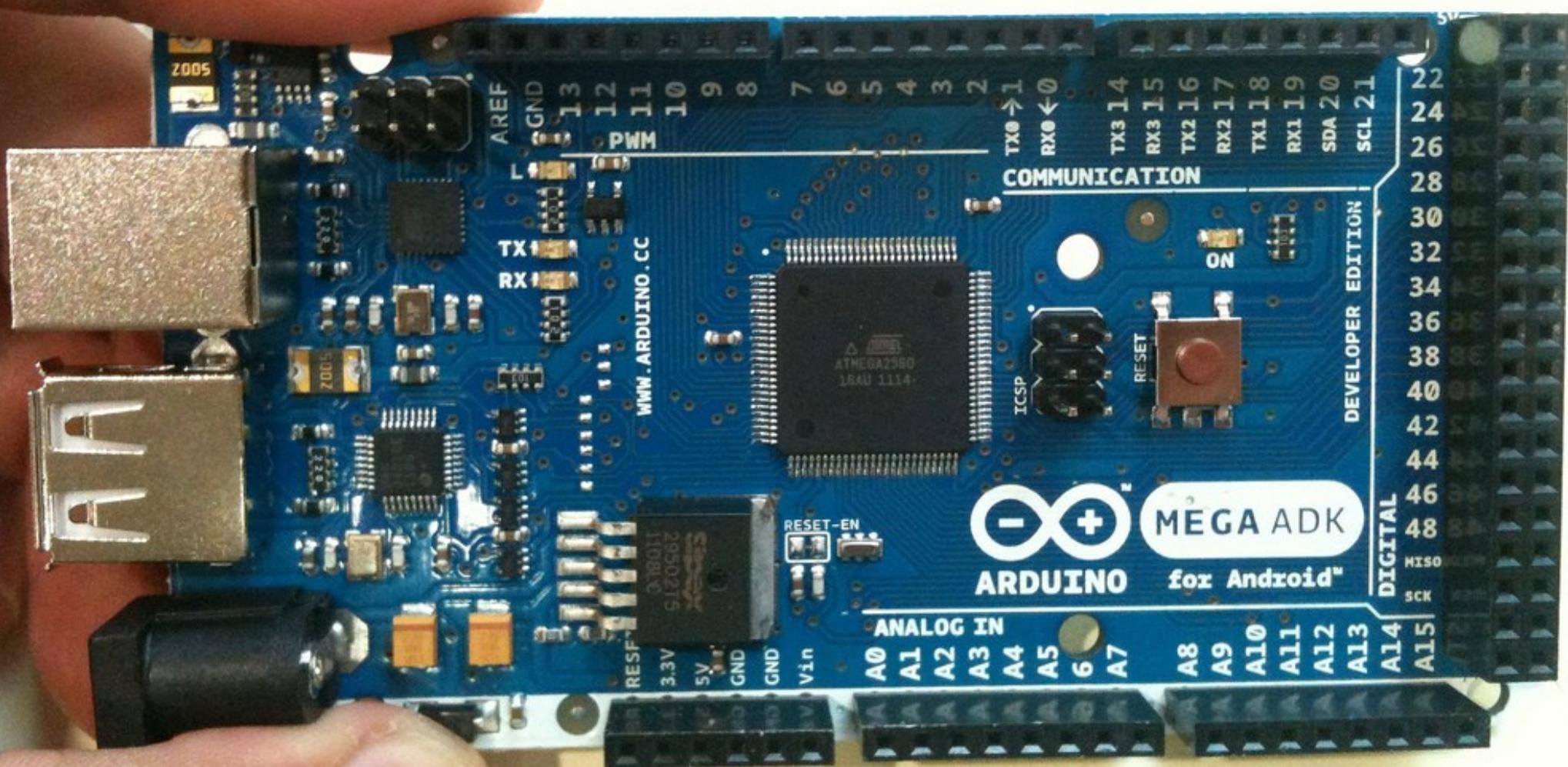




Connected Gym as seen at Google IO

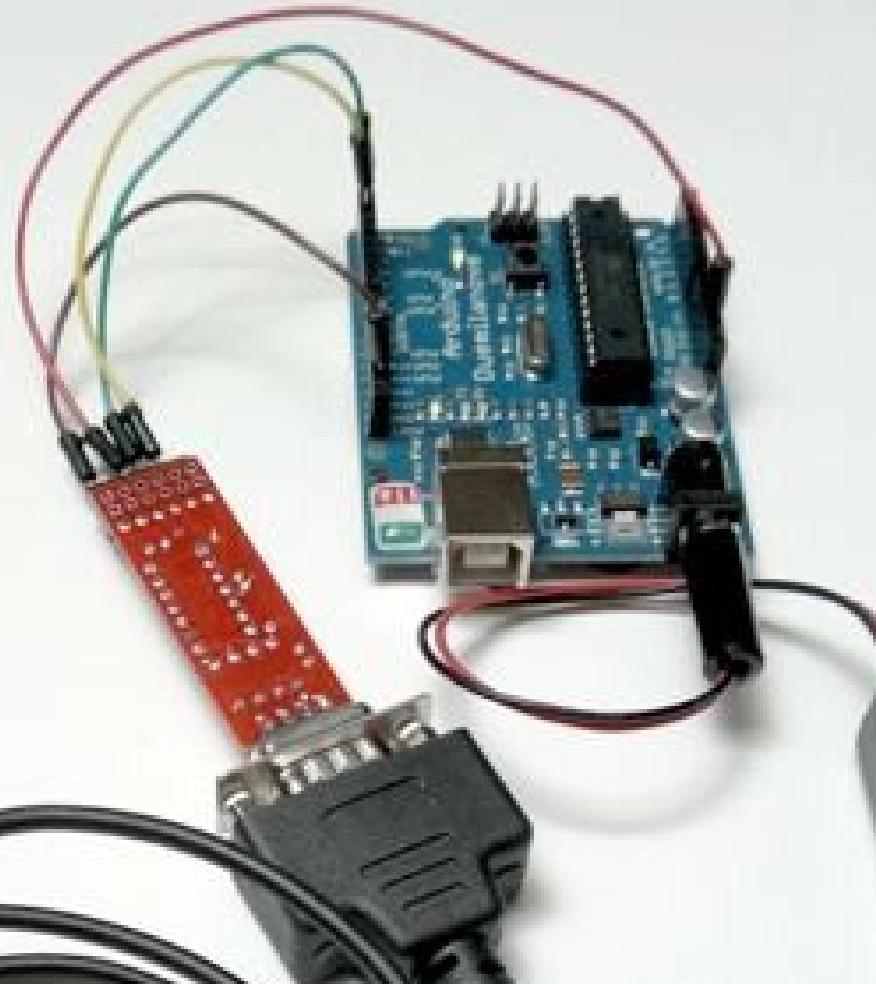


<http://www.engadget.com/2011/05/10/live-from-google-i-o-2011s-opening-keynote/>











Open Hardware

*the open hardware licensing establishes the freedom
for anyone to copy the PCB design and firmware and
to create derivative works based on the others*

Visit: <http://www.ohwr.org/cernohl> (the CERN license)

Visit: <http://freedomdefined.org/OSHW> (the definition)

The Business Model

... I cannot talk about others ... but we do it like this:

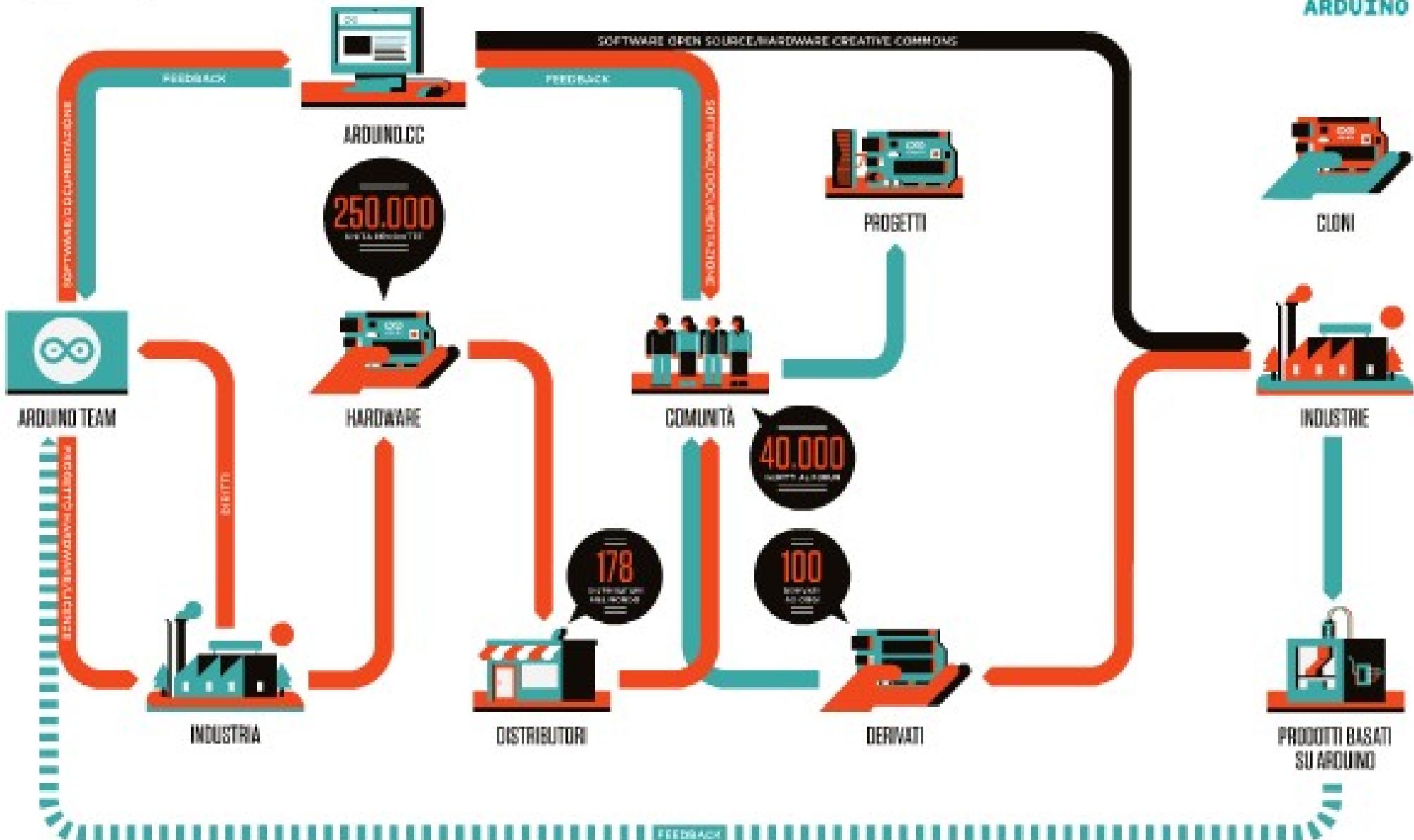
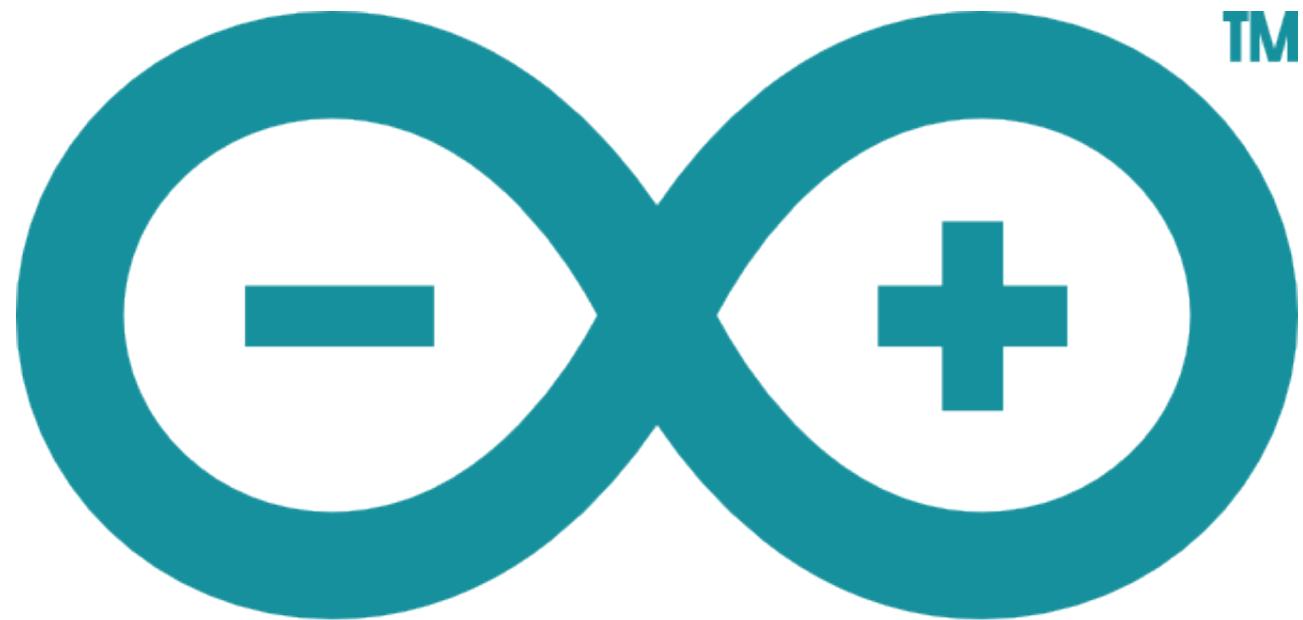


Illustration: Francesco Muzzi for Comitato Italia 150

Business Model



ARDUINO

