

# Open Source Hardware



FIND YOUR  
NEURAL G-SPOT!  
PAGE 51

THE  
DATA-DRIVEN  
FUTURE OF  
AMERICAN  
MEDICINE

BULLET TRAINS  
ARE HERE  
PAGE 74

MURDER  
AT AN  
INTERNET  
ADDICTION  
CAMP

CRACKING A  
SPY'S SECRETS  
PAGE 82

W T R E D

MAGAZINE  
OF THE  
DECADE  
—ADUXX

THE  
NEW INDUSTRIAL  
REVOLUTION

BY CHRIS ANDERSON

The factory, the  
investors, the workers—  
obsolete. In the age  
of DIY manufacturing,  
all you need is a garage  
and a great idea.



make it big Feb 2010

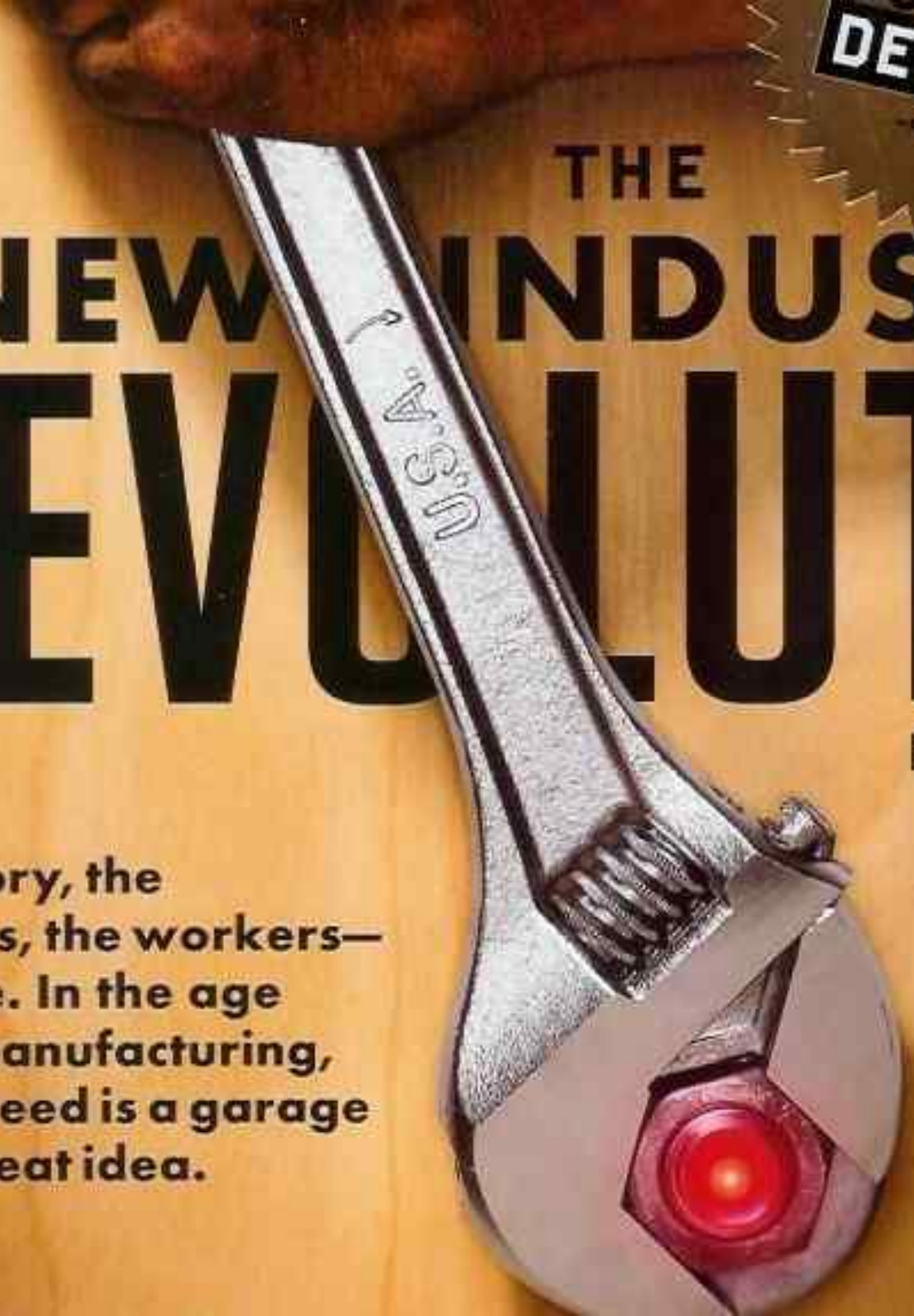
OF THE  
**DECADE**

—BREEK

# THE NEW INDUSTRIAL REVOLUTION

BY CHRIS ANDERSON

The factory, the investors, the workers—obsolete. In the age of DIY manufacturing, all you need is a garage and a great idea.



# Open Source Hardware?

- Licences pour le matériel libre
- Projets
- Communauté

# Licences: logiciels libres





Hello World

120 125 130 135 140

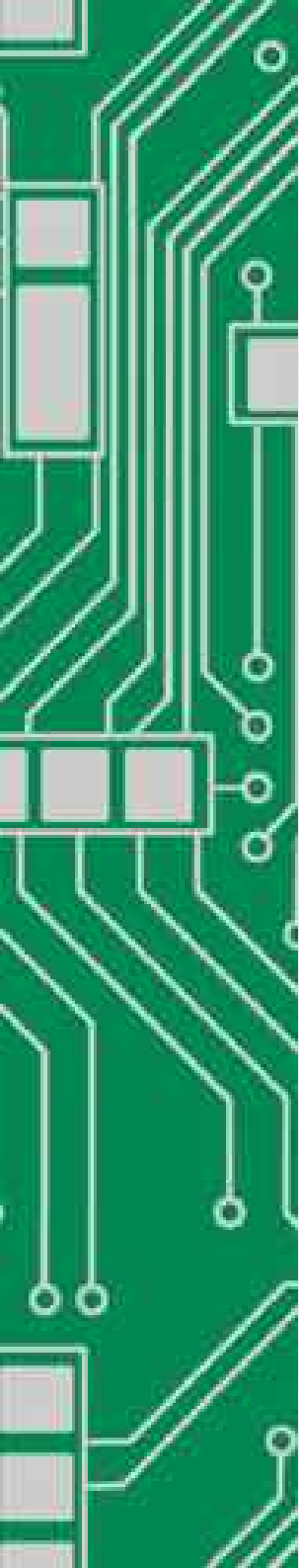
60 1

# Licences: logiciels libres



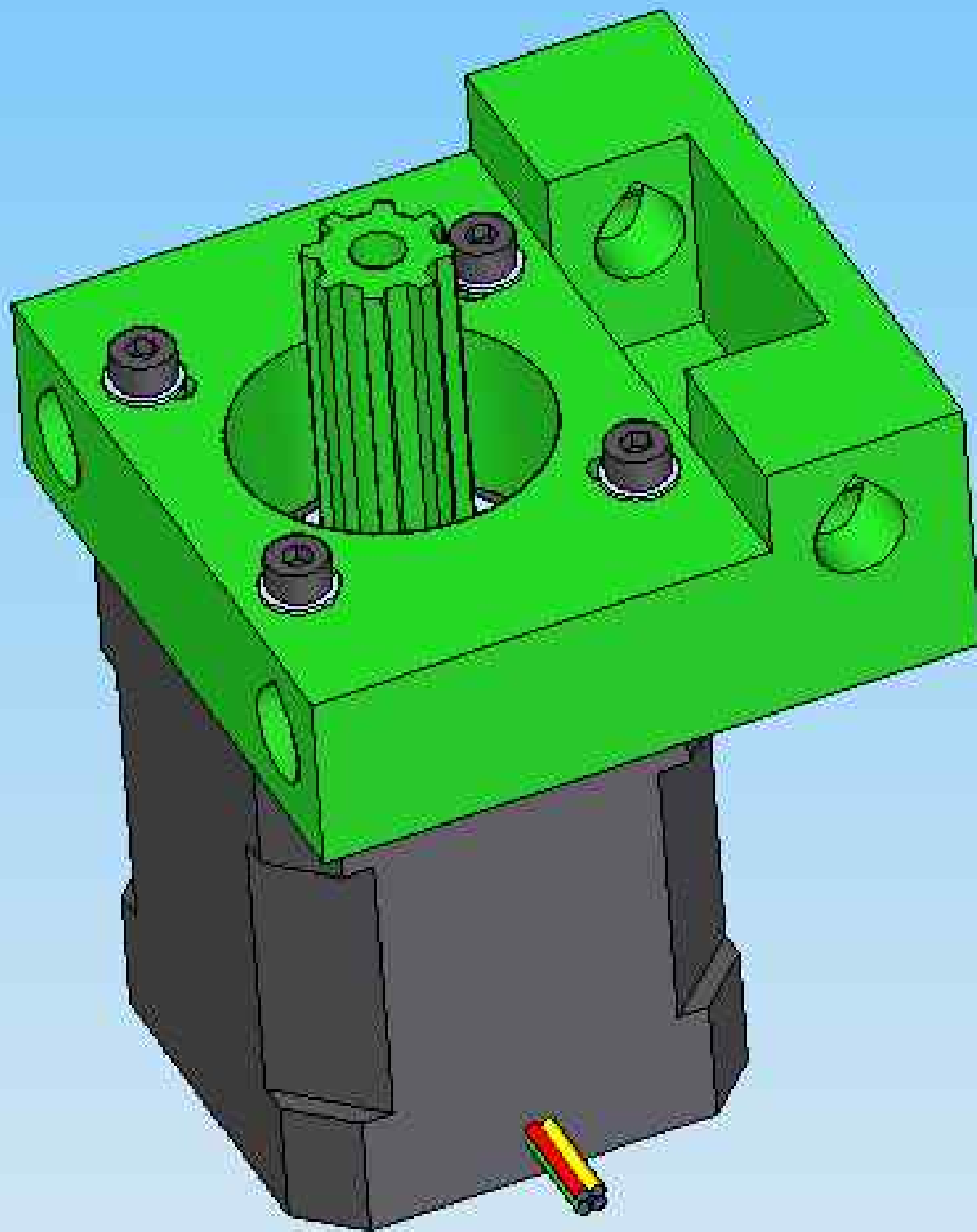
# Licences: matériel libre

- Est-ce qu'il y a une différence?



*Handwritten notes on a pink piece of paper, partially obscured by the code editor. The text is mostly illegible but appears to contain technical details related to the project.*

```
Blink | Ard
File Edit Sket
[Play] [Stop] [Save] [Share]
Blink
*/
int ledPin = 13;
// The setup() method
void setup()
// initialize
pinMode(ledPin, OUTPUT);
}
// the loop() method
// as long as the program is running
void loop()
{
digitalWrite(ledPin, HIGH);
delay(1000);
digitalWrite(ledPin, LOW);
delay(1000);
}
1
```



# Open Source Hardware Definition



NEW YORK  
HALL OF  
SCIENCE

SEPTEMBER  
23<sup>RD</sup>  
AT THE WORLD FAIR GROUNDS  
47-01 111TH ST. QUEENS, NY 11368

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## Help define Open Source Hardware, help define the future

Posted on [September 29, 2010](#) by [openhardwaresummit](#)



The Summit has ended, but the discussions have not! Please visit the draft wiki (v.04) for the revised definition from the Summit: [http://freedomdefined.org/OSHW\\_draft](http://freedomdefined.org/OSHW_draft)

### twitter#openhardware

- [vpsingh](#): RT [@weinnov8](#): In #UK more hobbyists making their own solutions when not commercially available than R&D people employed <http://ht.ly/2MRdb> [#openhardware](#) »
- [View All](#)

### twitter #openhwsommit

- [davetenhave](#): RT [@buglabs](#): RT [@isocny](#) Audio files from the Open Hardware Summit [#openhwsommit #openhardware](#) <http://bit.ly/a5lhT8> »
- [View All](#)

### Catalysts

Hosted by

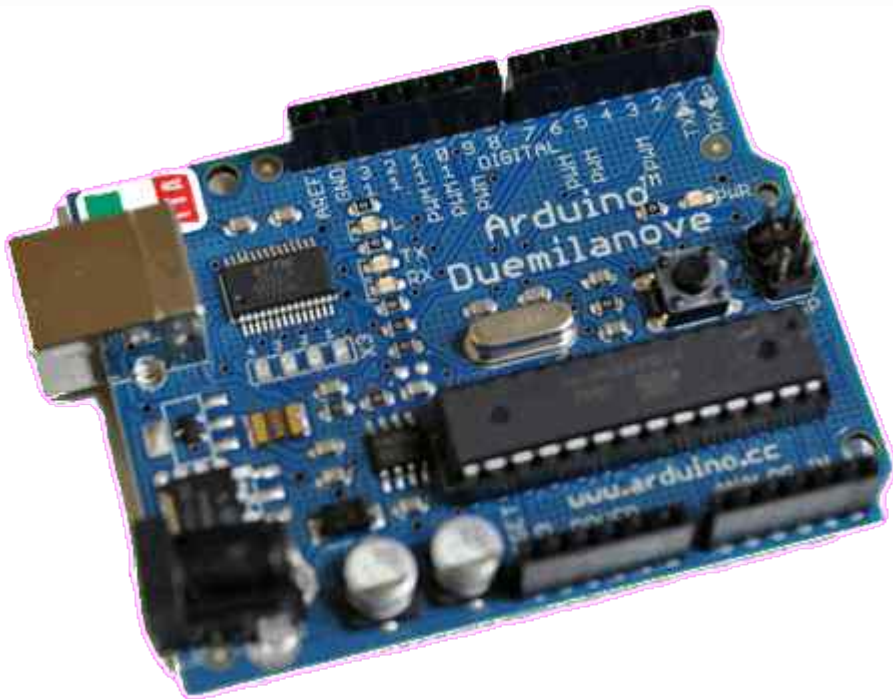


# Projets

- Electronique
- Appareils mobiles
- Musique et artistique
- Transport
- Open source manufacturing

# Arduino?

- Carte Arduino
- L'environnement de développement
- Langage et compilateur

A screenshot of the Arduino IDE interface. The window title is 'Blink | Arduino 0018'. The menu bar includes 'File', 'Edit', 'Sketch', 'Tools', and 'Help'. Below the menu bar is a toolbar with icons for running, stopping, saving, and other functions. The main area displays the C++ code for the 'Blink' sketch. The code includes comments and function definitions for setup() and loop().

```
*/  
  
int ledPin = 13; // LED connected to digital pin 13  
  
// The setup() method runs once, when the sketch starts  
  
void setup() {  
  // initialize the digital pin as an output:  
  pinMode(ledPin, OUTPUT);  
}  
  
// the loop() method runs over and over again,  
// as long as the Arduino has power  
  
void loop()  
{  
  digitalWrite(ledPin, HIGH); // set the LED on  
  delay(1000); // wait for a second  
  digitalWrite(ledPin, LOW); // set the LED off  
  delay(1000); // wait for a second  
}
```

Broches digitales



Connecteur USB



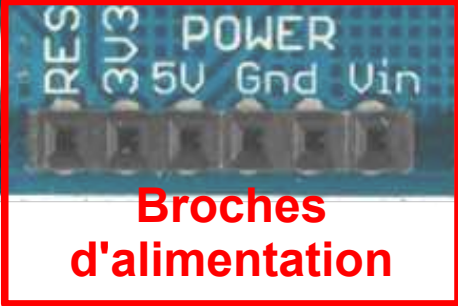
Microcontrôleur



Prise d'alimentation



Broches d'alimentation



Broches analogiques

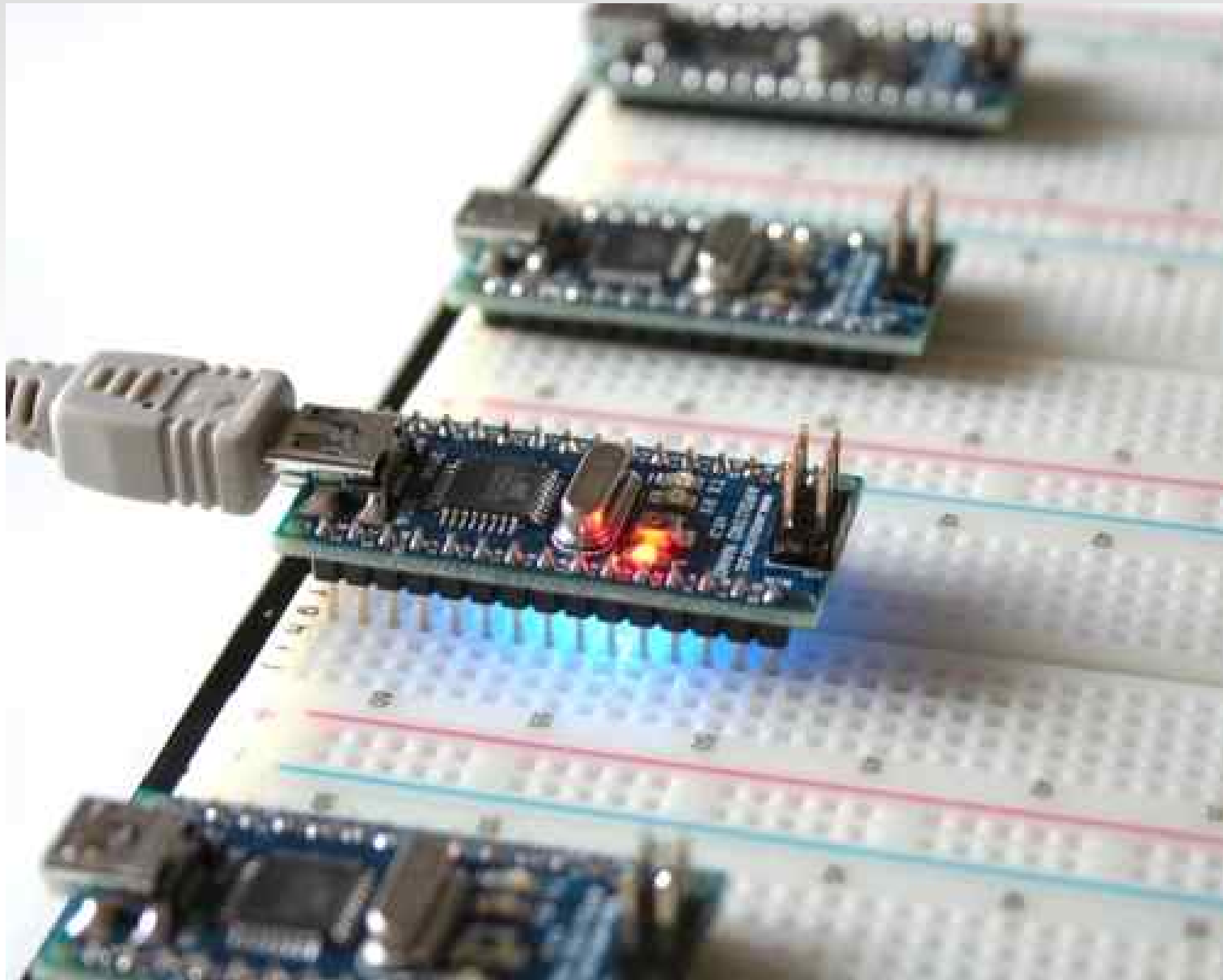


# Ambient Orb sur Twitter

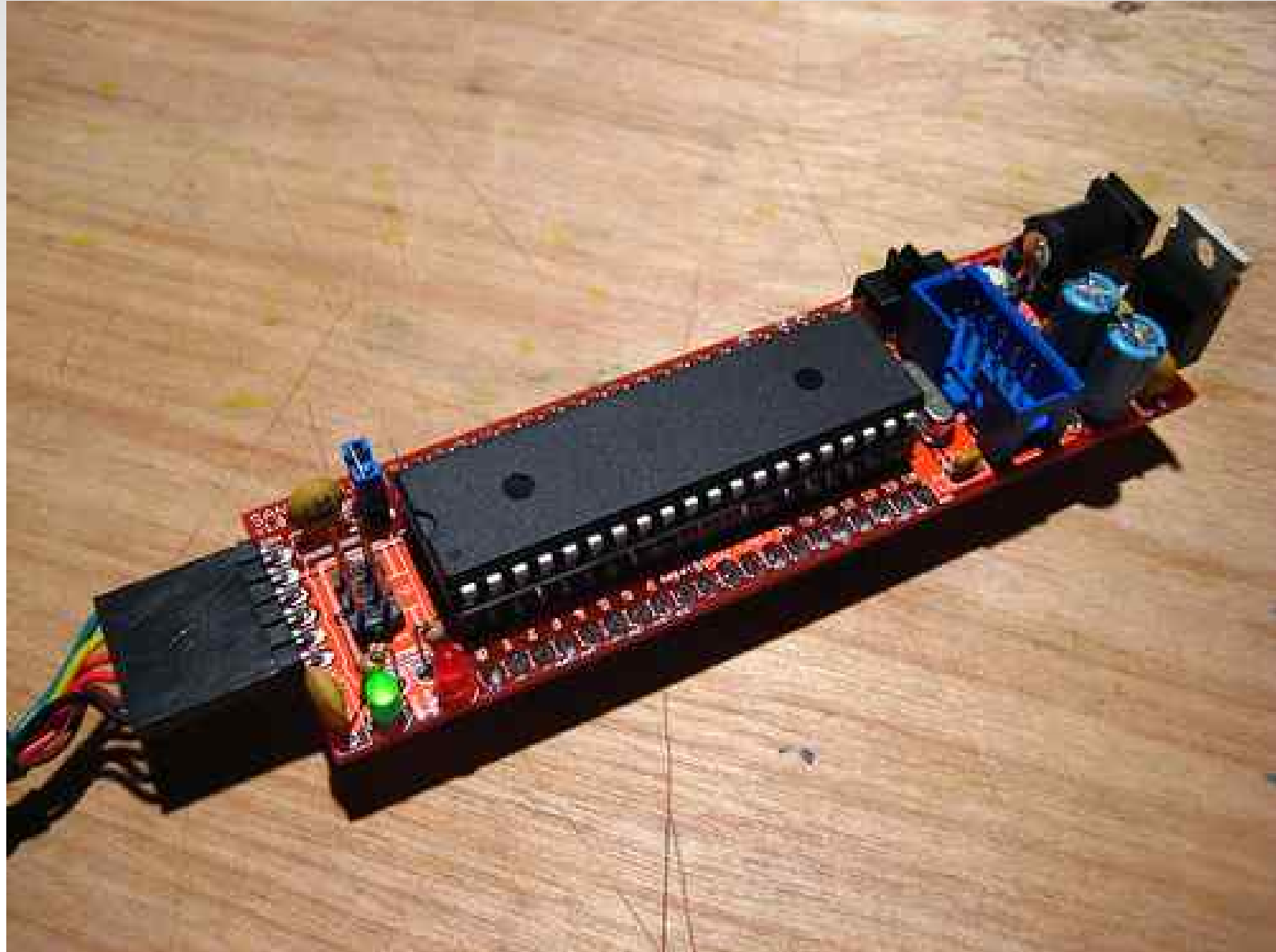
- Envoyez des tweets avec "fetons-linux"!



# Arduino et ses dérivés: Nano



# Arduino et ses dérivés: Sanguino



# Arduino Shields: Ethernet Shield



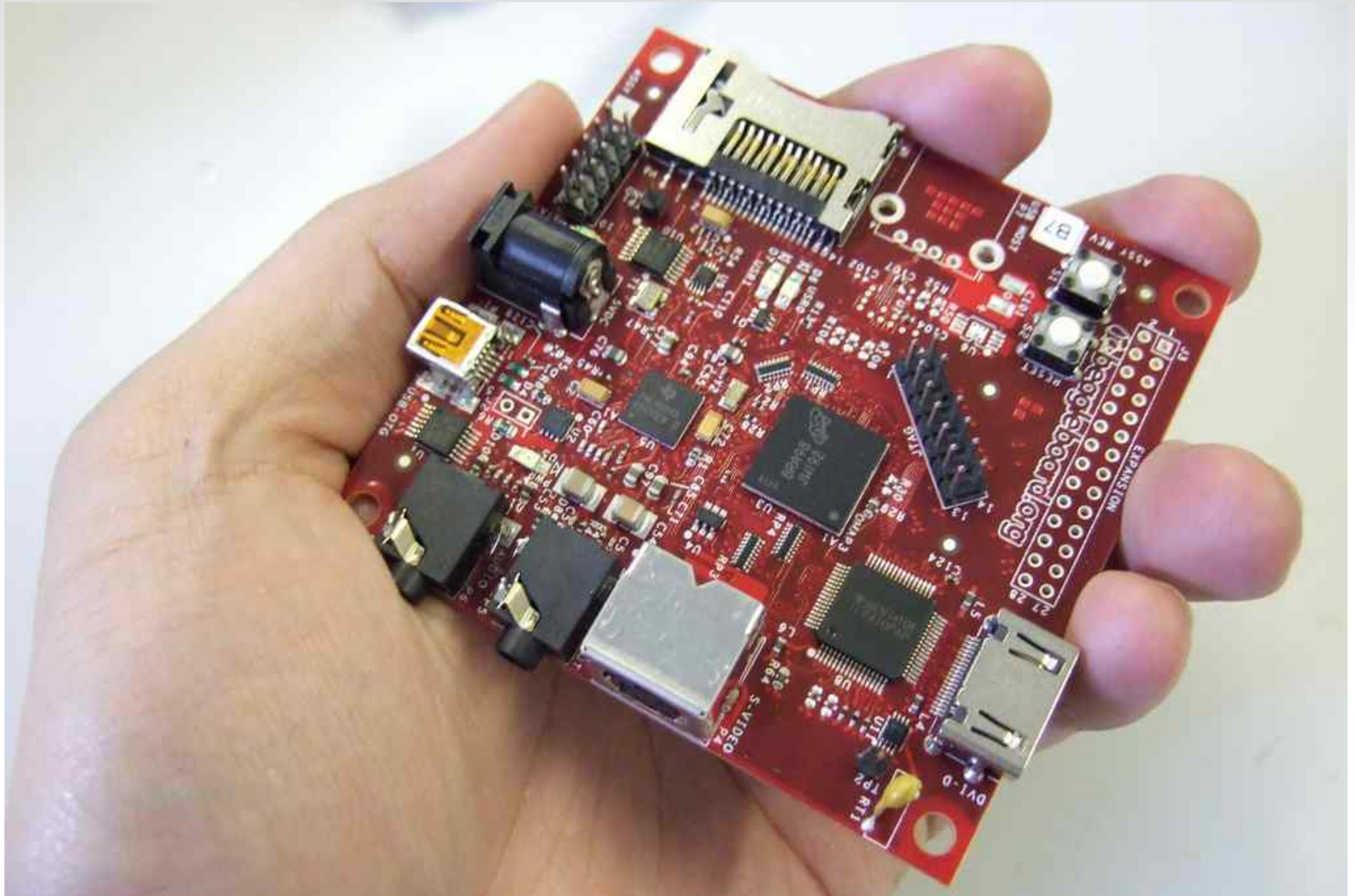
# Arduino Shields: GPS shield and data logger



# Arduino Shields: Wave Shield



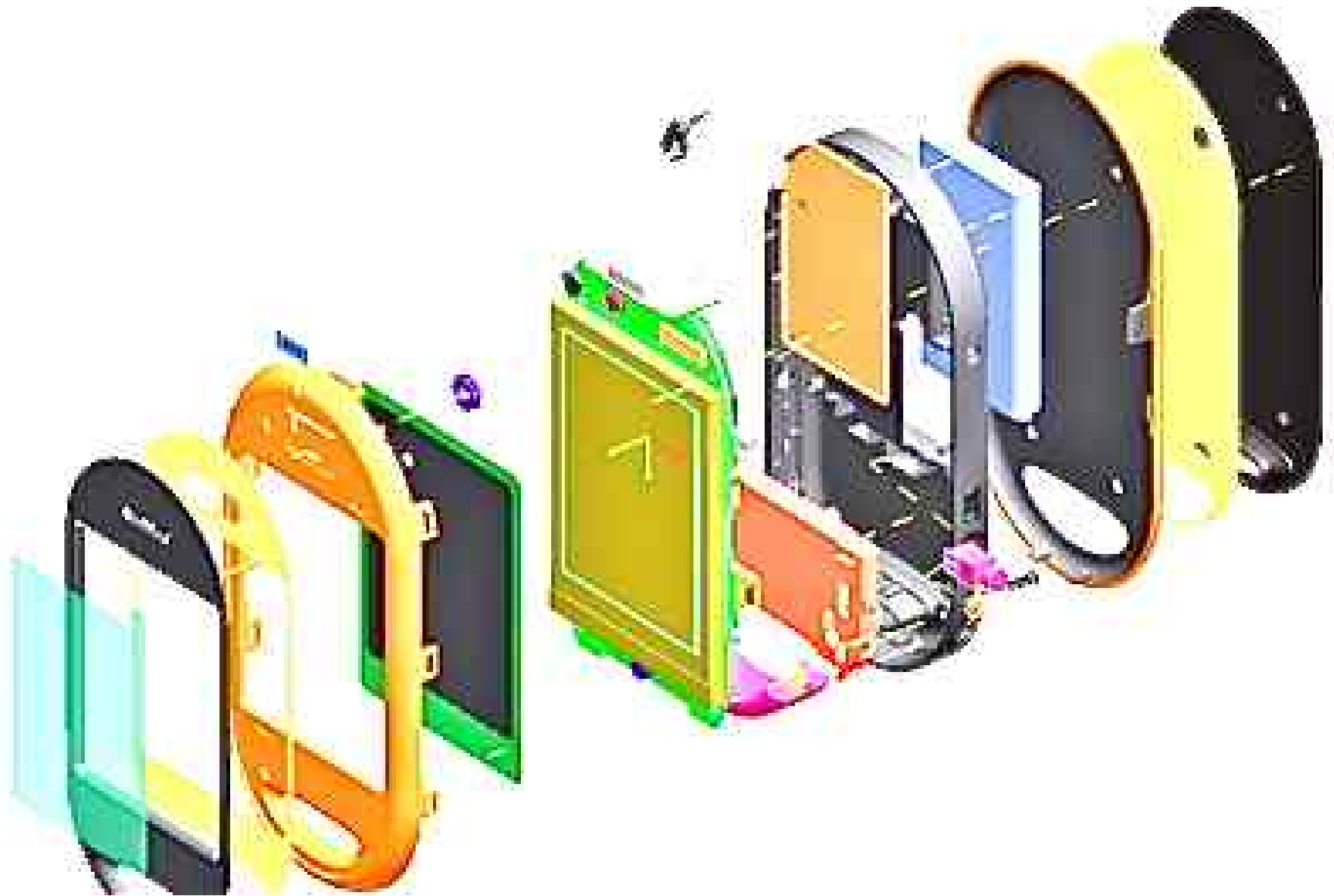
# Beagleboard



# Appareils mobiles: Open Moko



# Appareils mobiles: Open Moko



# Musique: Zoybar



זויבר, כלו ונוטה להכנסה ואמנים, המאפשרים קונצ'רט עם האנדרה ואם הצליל

# Musique: Monome



# Musique: Monome



# Transport: Trex



# Transport: Rally Fighter



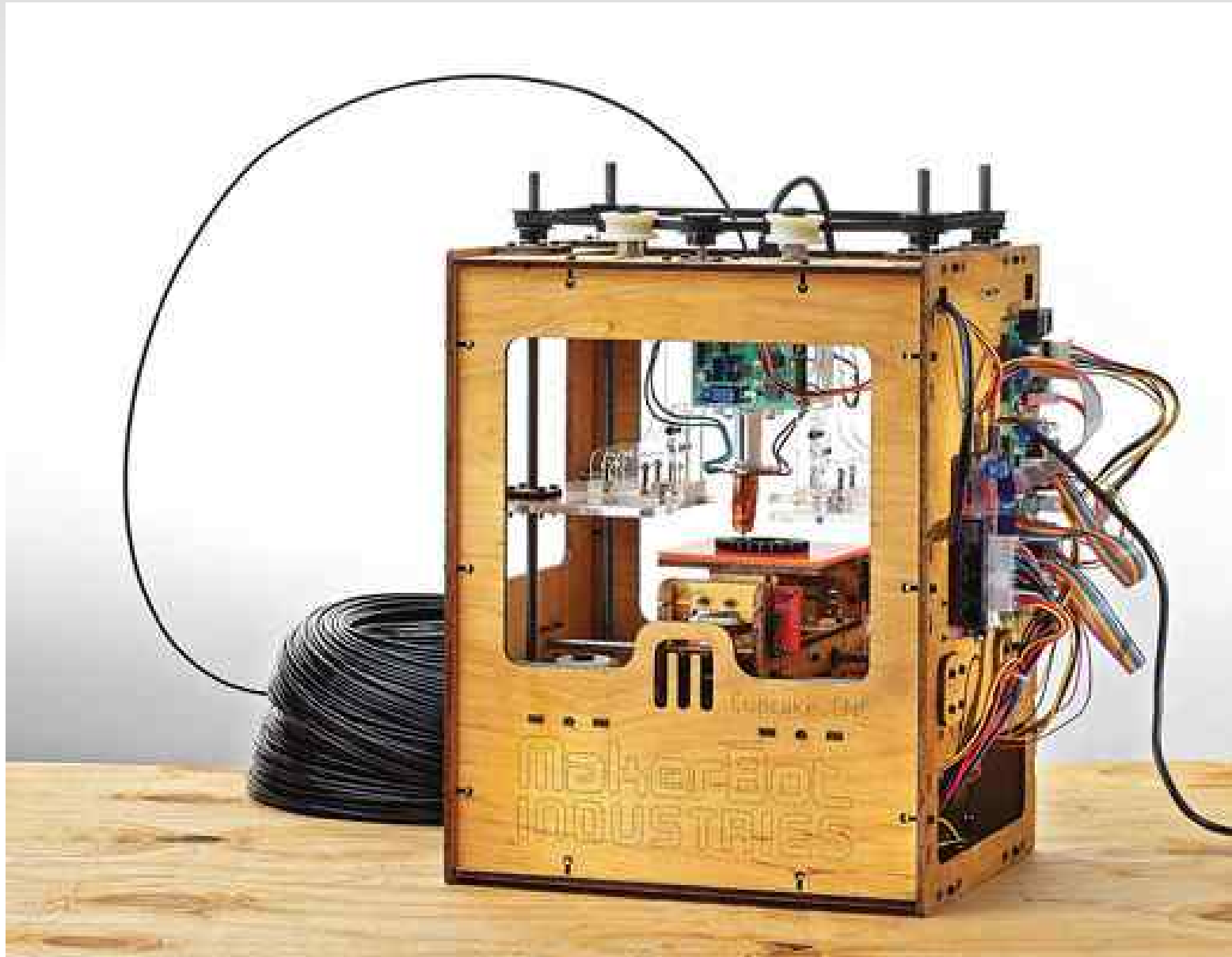
RALLY FIGHTER

[www.local-motors.com](http://www.local-motors.com)

# Star Trek Replicator



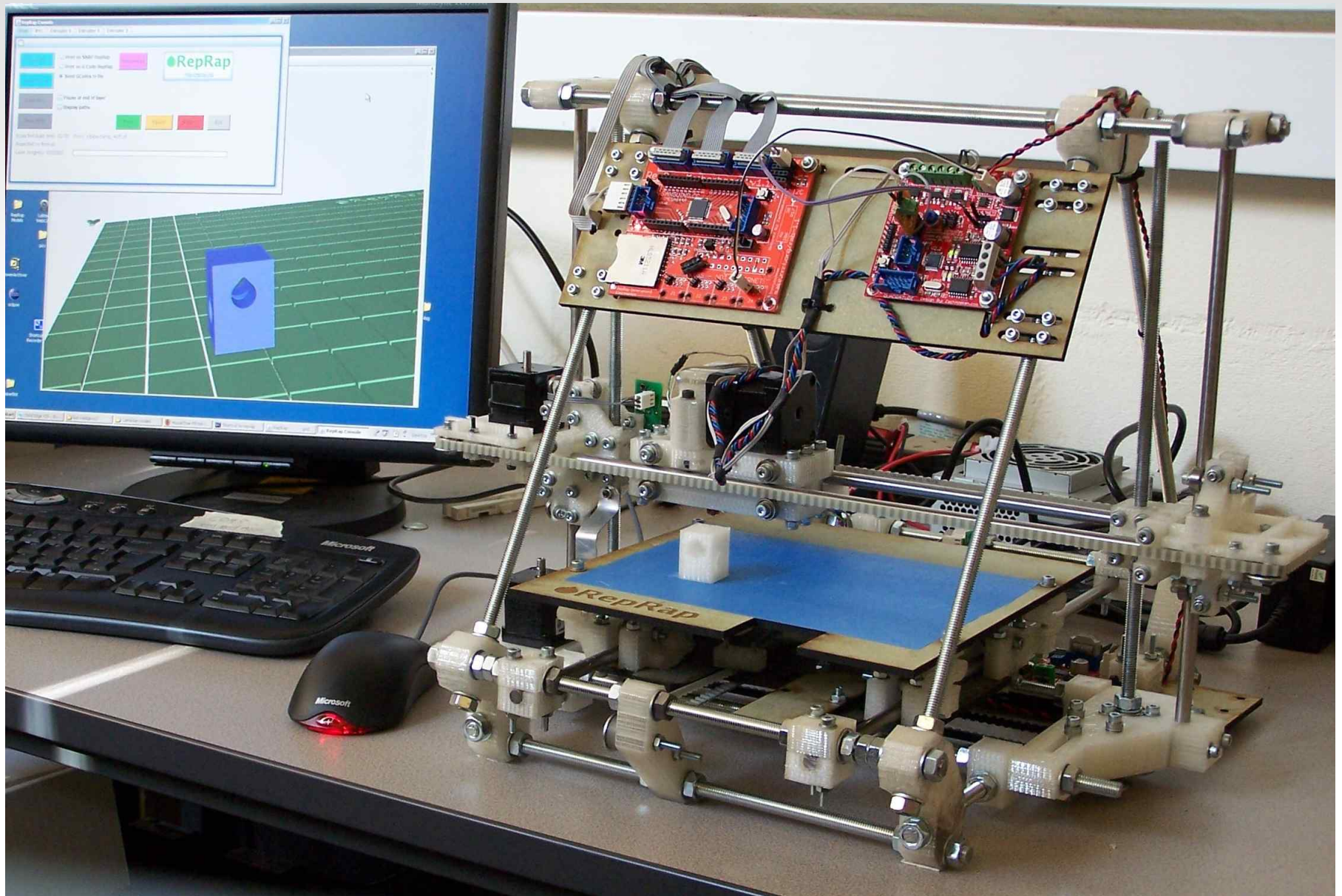
# Imprimante 3D: Makerbot



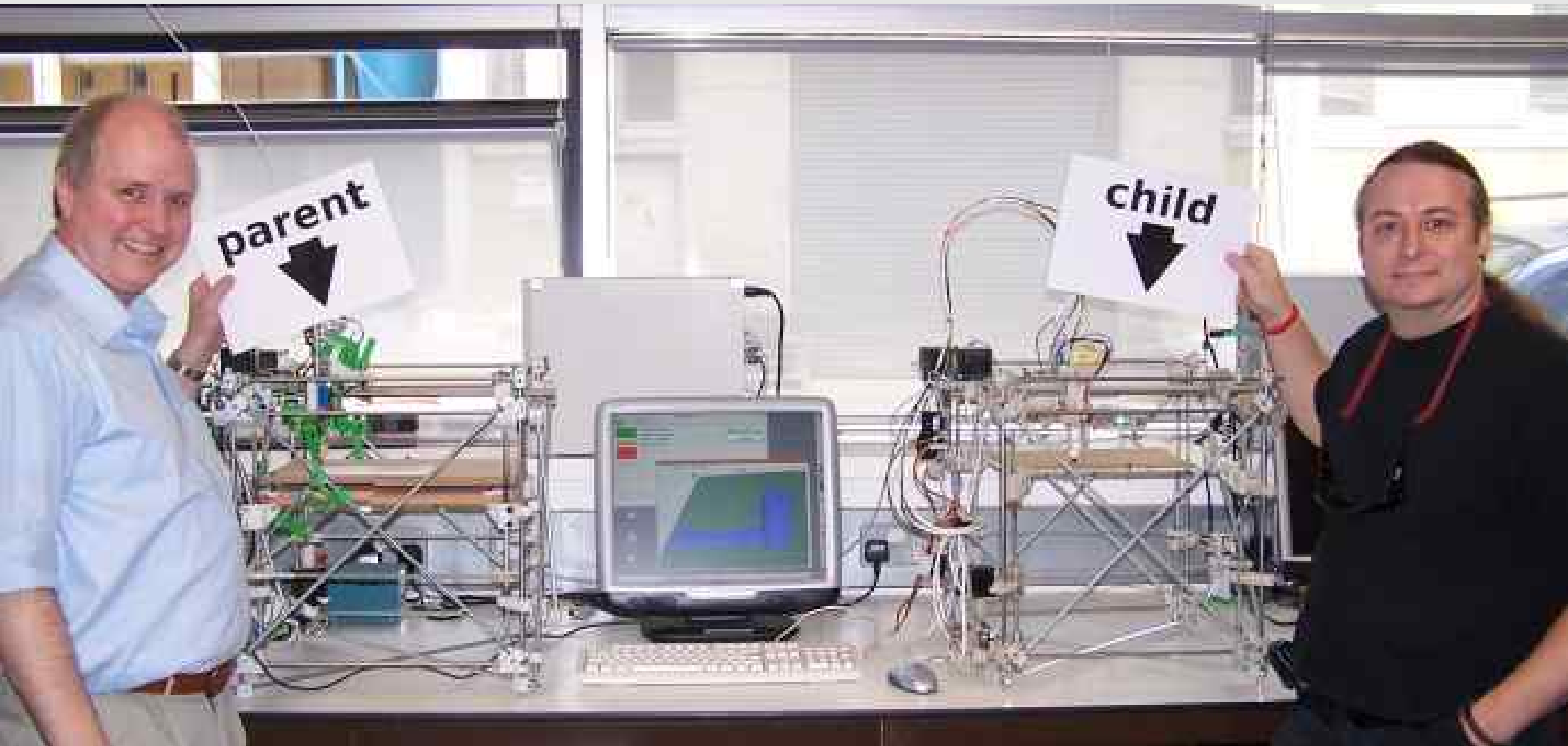
# Imprimante 3D: Makerbot



# Imprimante 3D: RepRap



# Imprimante 3D: RepRap



# Communauté

- Sites
- Hackerspaces

# Communauté: Sites

- [http://en.wikipedia.org/wiki/Open-source\\_hardware](http://en.wikipedia.org/wiki/Open-source_hardware)
- <http://harkopen.com/>
- <http://openmanufacturing.org/>
- <http://hackerspaces.org>

# Communauté: Hackerspaces

- Un espace de rencontre pour les personnes intéressées par l'électronique, l'informatique, la mécanique, l'art, ...



# PostTenebrasLab

- Aussi à Genève, mais toujours SDF
- Rencontres régulières, workshops, présentations
- [www.PostTenebrasLab.ch](http://www.PostTenebrasLab.ch)
- [comite@posttenebraslab.ch](mailto:comite@posttenebraslab.ch)

