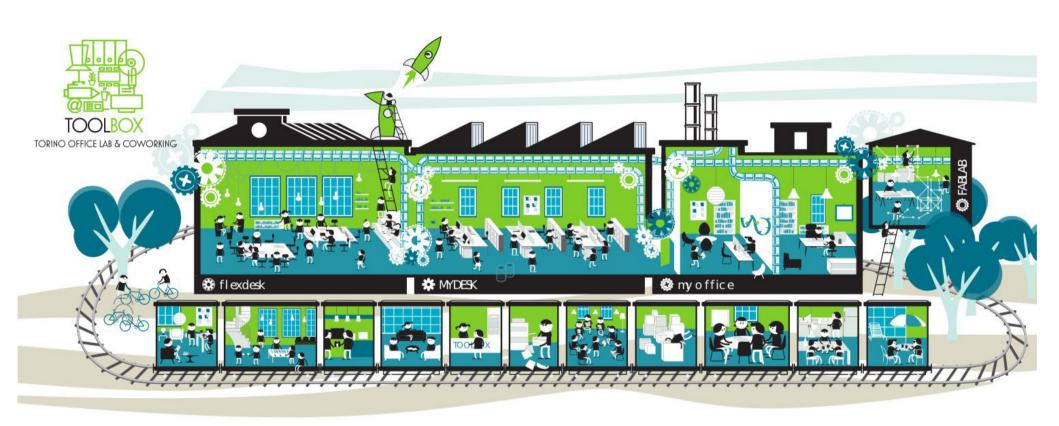
# Arduino, the Maker Movement The Change of a Paradigm





Officine Arduino | Fablab Torino



### **Toolbox Torino** @tlbxtorino



more #officineArduino around

Arabia



# What is Arduino?

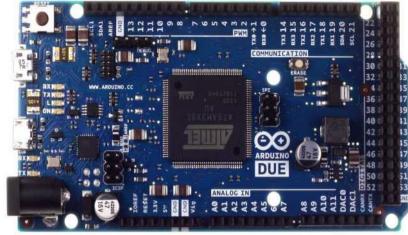






a piece of a programming A Community Environment





## Due



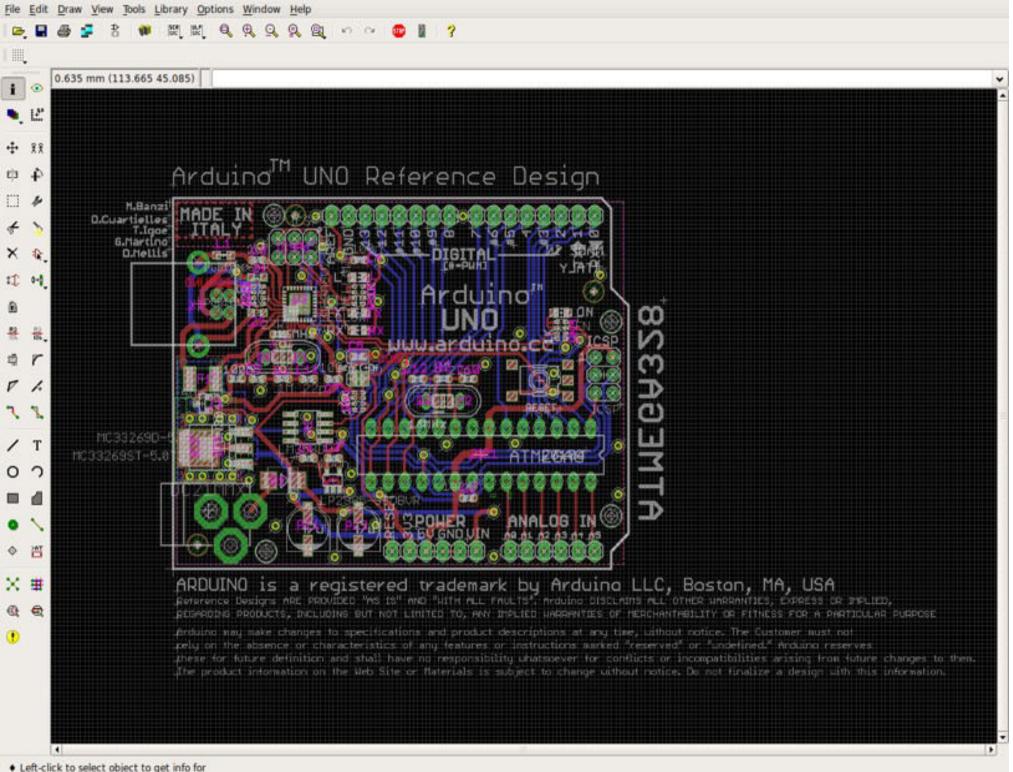


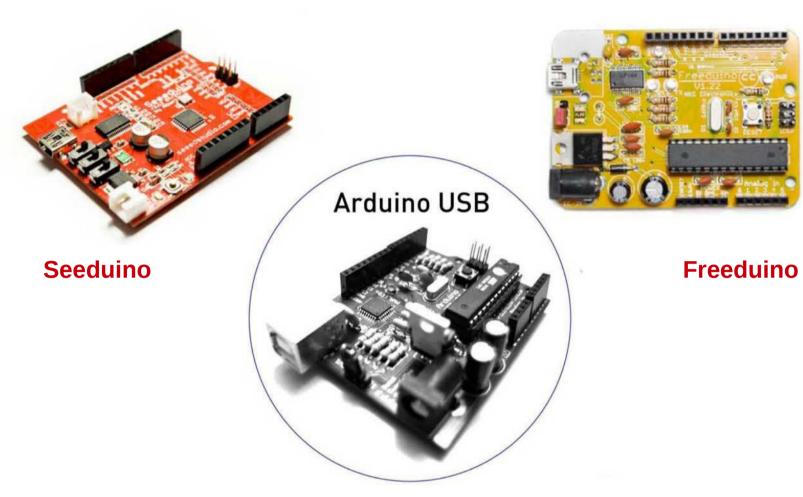


Nano



Pro

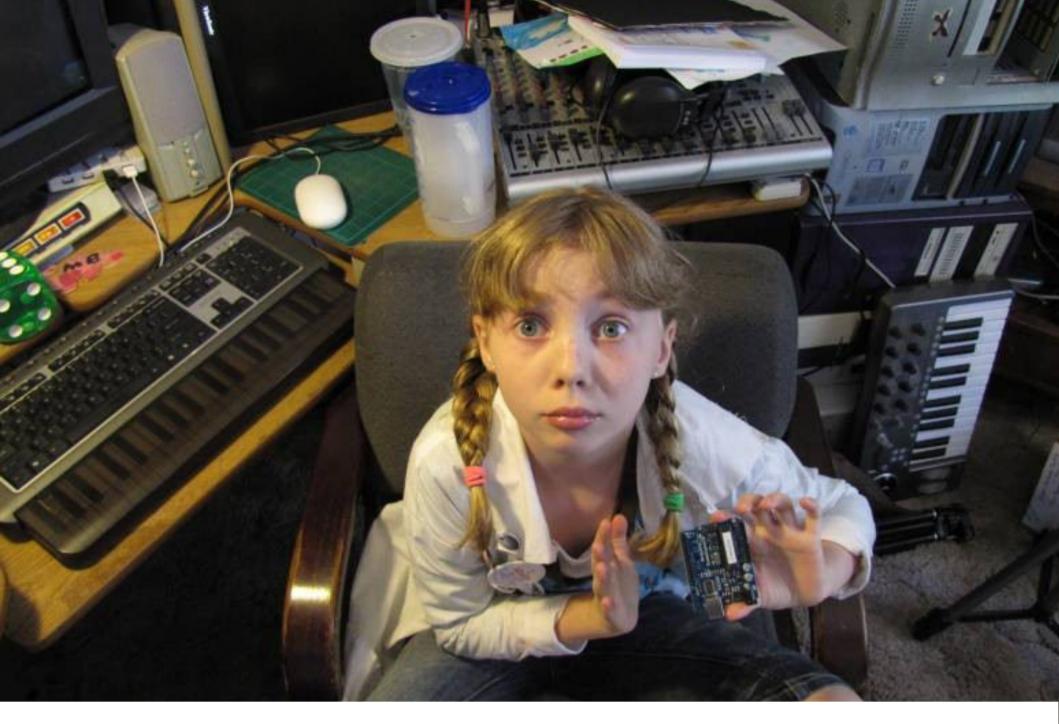




### **Boarduino** Teensy







**Super Awesome Silvia** // sylviashow.com/

Magazine

# DIY Back to the future shoes – Power Laces- the Auto lacing shoe

By Phillip Torrone Posted 07/05/2010 @ 6:20 pm Category Arduino Comments 0 Comments



Power Laces- the Auto lacing shoe – awesome.

Why wait until 2015? Inspired by 'Back to The Future II', this project is less 'Practical' than 'Proof of Concept', but hopefully it'll tide you over until Nike





Trending

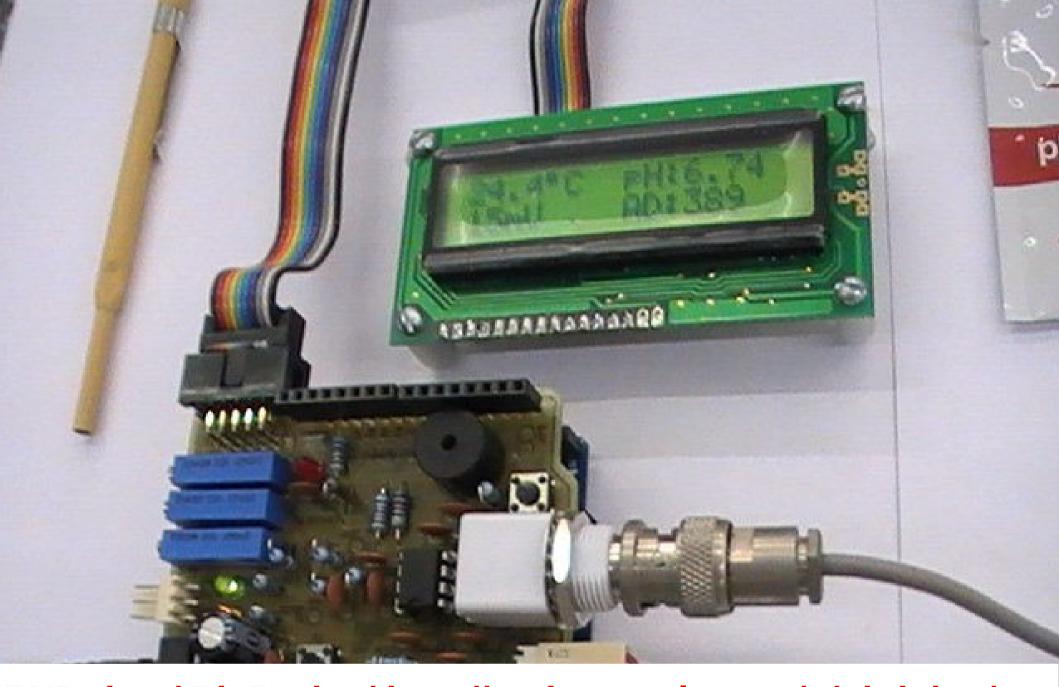
Shared

Commented

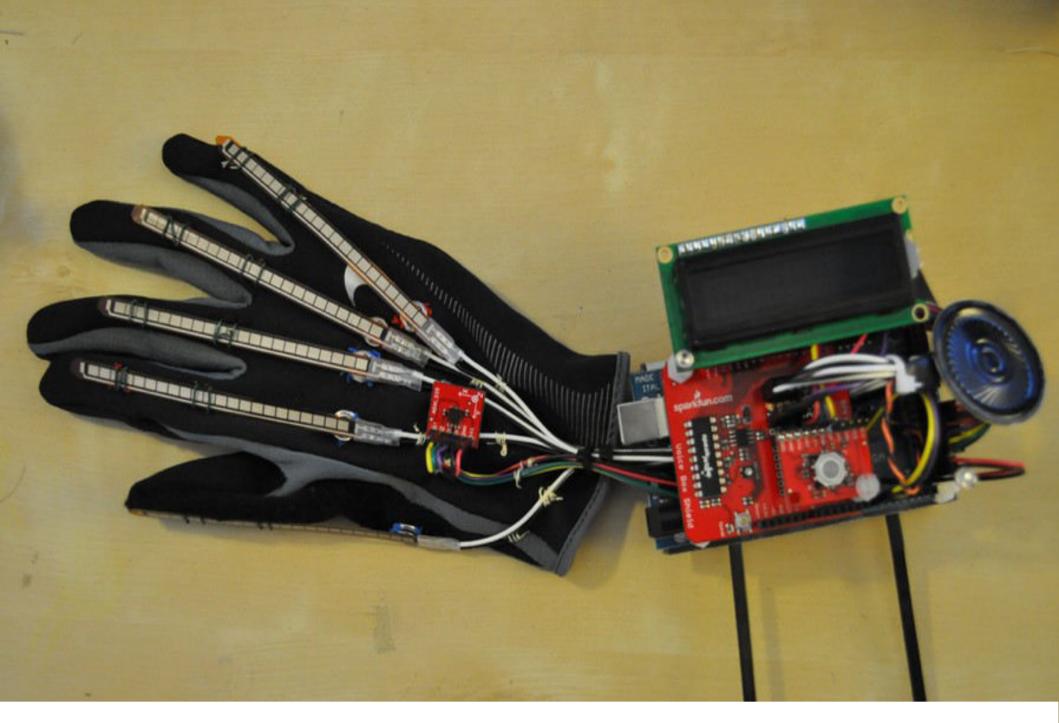
// WHAT'S TRENDING



47 Raspberry Pi Projects to Inspire Your Next Build



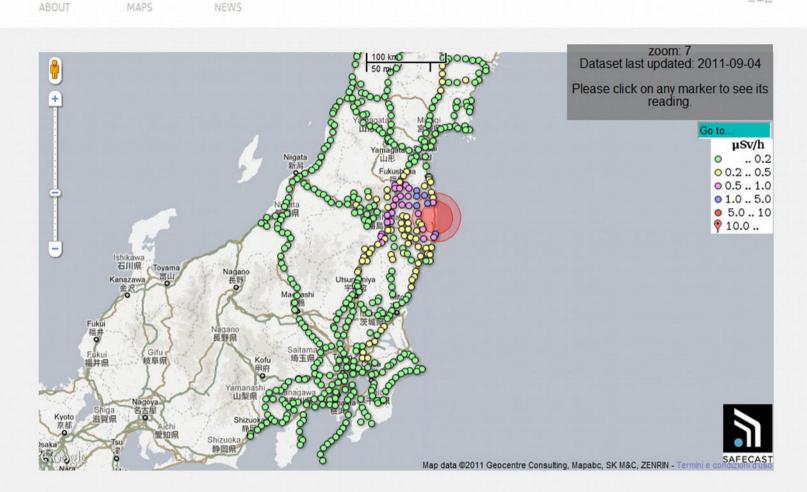
PHDuino / Ph Probe / http://code.google.com/p/phduino/



sign language glove (http://www.clloks.com/?p=8)

**ENGLISH** 

日本語



SAFECAST 5

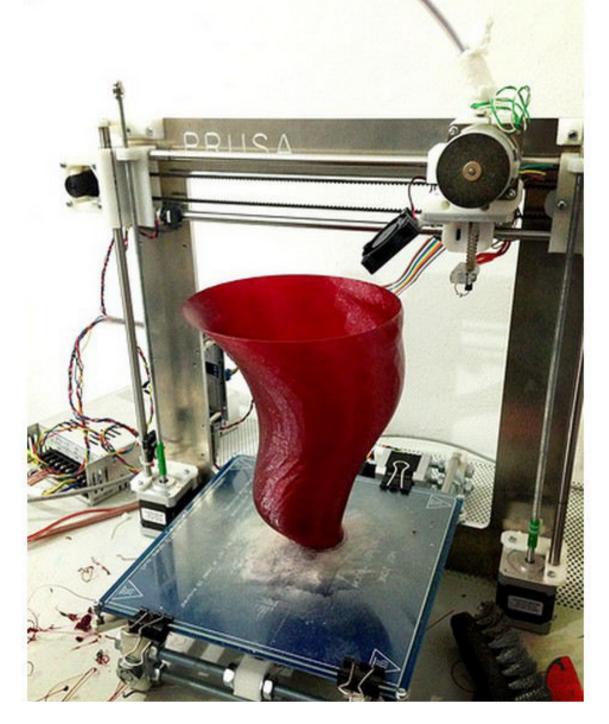
#### Contact

GENERAL 全般: info@safecast.org JAPAN 日本: japan@safecast.org PRESSプレス: press@safecast.org VOLUNTEER: Interested in helping?

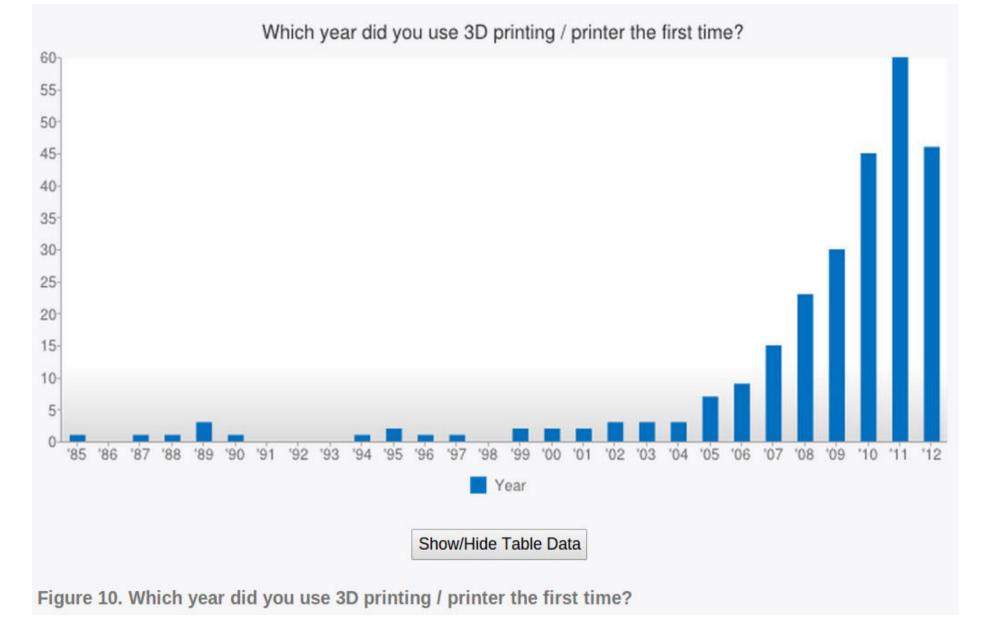
ボランティア: ボランティアに興味をお持ちですか?

#### Follow

- @safecastdotorg
- @safecastjapan
- .. Safecast on Flickr Discussion mailing list

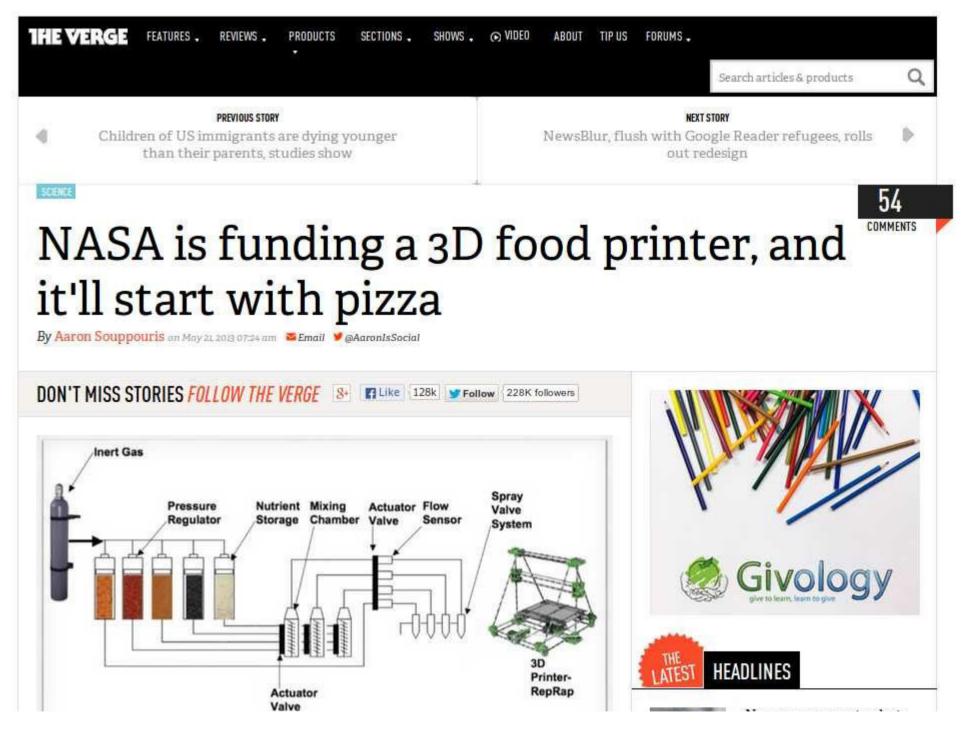


#reprap #prusa 3D printer // @josefprusa



### History of 3D printing 1984 – 2014 Compare Data: RepRap explosion and first time print

http://surveys.peerproduction.net/2012/05/manufacturing-in-motion/3/



Source: the Verge.com http://bit.ly/11cxnxC @verge



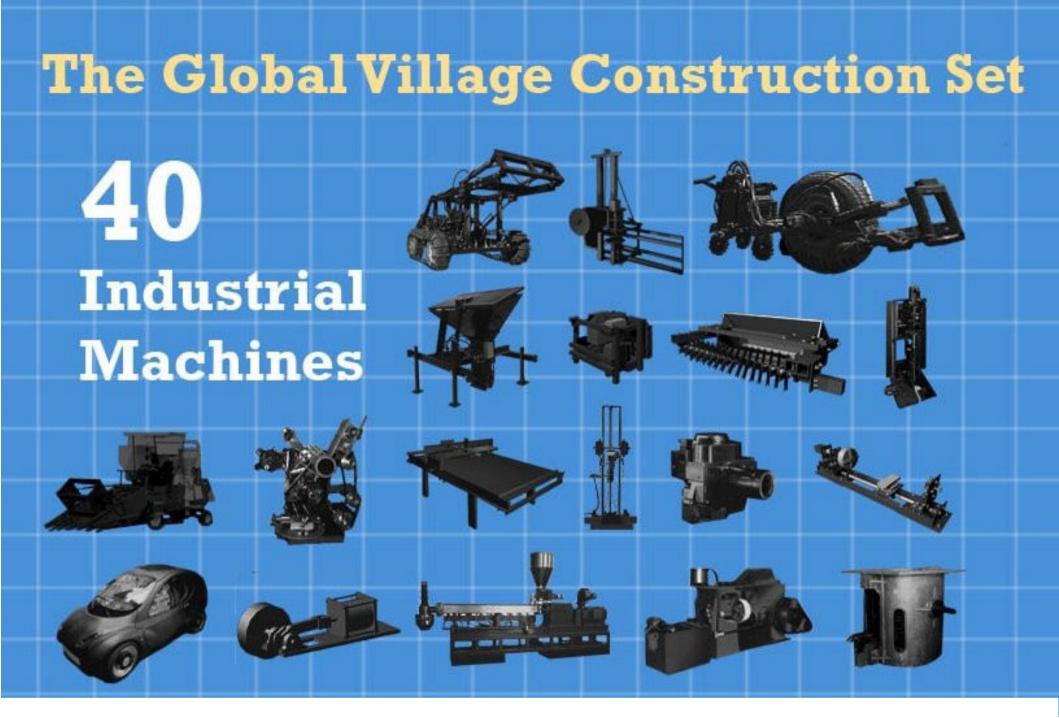
### **Angelo Raffaele Meo**

http://it.wikipedia.org/wiki/Angelo\_Raffaele\_Meo

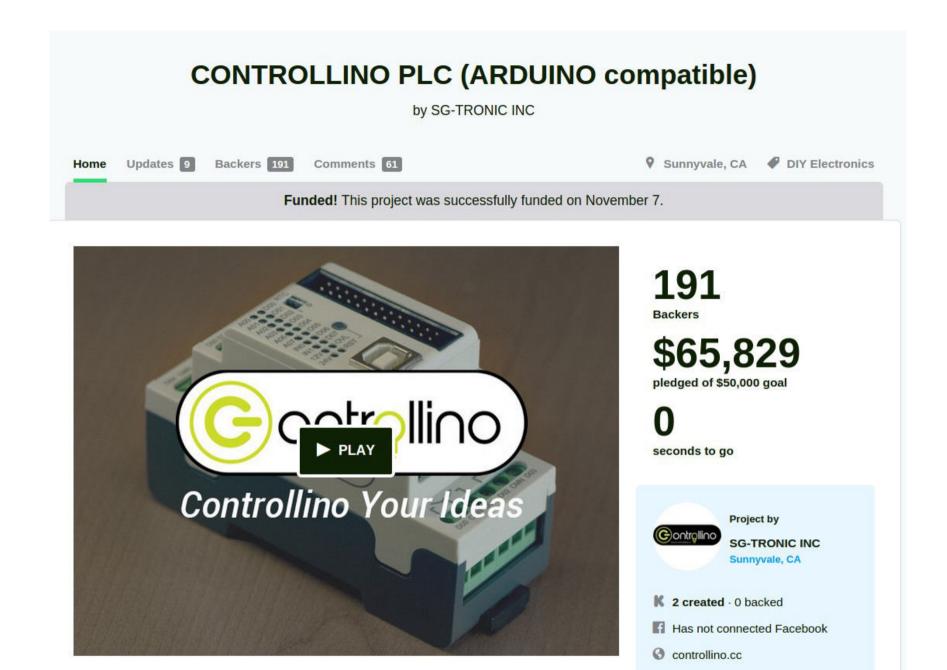
« A twenty five years term of patent is nowadays dated.

At the beginning of the 19th century, such long terms allowed producers to pay back the investment. Today, they hamper innovation. Twenty years in the 19th century correspond to 6 months of today »

« I 25 anni di durata di un brevetto sono oggi anacronistici. Ad inizio '800 garantivano al produttore di ritornare dell'investimento fatto, oggi bloccano l'innovazione. Vent'anni dell'800 corrispondono a 6 mesi di oggi»



**Open Source Ecology** 



### **Open Source Hardware and PLC: Arduino in the Factory?**

# IF YOU CAN'T OPEN IT, YOU DON'T OWN IT

makezine.com

# THE MAKER'S BILL OF RIGHTS

- Meaningful and specific parts lists shall be included.
- Cases shall be easy to open. Batteries shall be replaceable. Special tools are allowed only for darn good reasons. Profiting by selling expensive special tools is wrong, and not making special tools available is even worse. Torx is OK; tamperproof is rarely OK.
- Components, not entire subassemblies, shall be replaceable. ■ Consumables, like fuses and filters, shall be easy to access. ■ Circuit boards shall be commented.
- Power from USB is good; power from proprietary power adapters is bad. Standard connectors shall have pinouts defined. If it snaps shut, it shall snap open. Screws better than glues. Docs and drivers

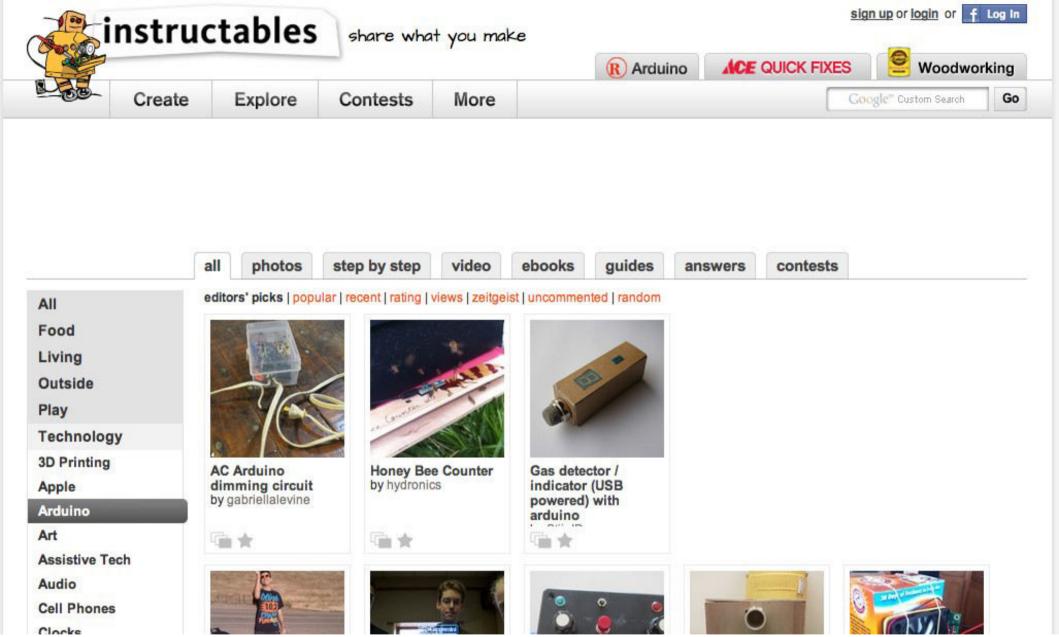


Maker Movement is making our relationship with technology shift from a consumer to a citizen perspective



**Fablab in Europe (2014) = 239** 

Source: http://www.fabfoundation.org/fab-labs/



Online and Makerspace based learning @instructables







Online and Makerspace based learning @udacity @codeacademy @Khanacademy

### 'Badges' Earned Online Pose Challenge to Traditional College Diplomas



Photo illustration by Bob McGrath for The Chronicle

#### Enlarge Image

By Jeffrey R. Young

The spread of a seemingly playful alternative to traditional diplomas, inspired by Boy Scout achievement patches and video-game power-ups, suggests that the standard certification system no longer works in today's fast-changing job market.

Educational upstarts across the Web are adopting systems of "badges" to certify skills and abilities. If scouting focuses on outdoorsy skills like tying knots, these badges denote

areas employers might look for, like mentorship or digital video editing. Many of the new digital badges are easy to attain—intentionally so—to keep students motivated, while others signal mastery of fine-grained skills that are not formally recognized in a traditional classroom.

At the free online-education provider Khan Academy, for instance, students get a "Great Listener" badge for watching 30 minutes of videos from its collection of thousands of short educational clips. With enough of those badges, paired with badges earned for passing standardized tests administered on the site, users can earn the distinction of "Master of Algebra" or other "Challenge

# Online and Makerspace based learning













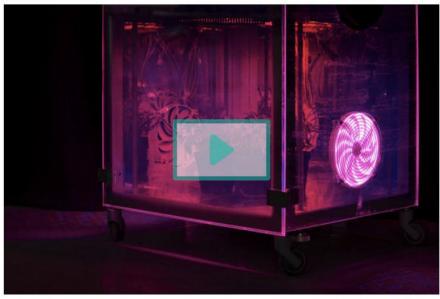


May 2015

10:00 - 18:00

**Toolbox Coworking Torino** 

@TOmakerfaire





🕏 GRAND PR ₹ 4.13/5 Voting took place 9 June - 11 July 2014. Learn more. **FOLLOW PROJECT** 

MEG, Micro Experimental Growing



MEG, open source greenhouse // #TOmmf

### Meet the Maker: Fabrizio Alessio e TwoWheels

Posted on 01/04/2014 by davide gomba | Leave a comment



May 2015 10:00 – 18:00 Toolbox Coworking Torino @TOmakerfaire



Fabrizio Alessio and its wheelchair

Siamo andati a incontrare Fabrizio Alessio, un designer che ha sviluppato una

### TooWheels, open source wheelshair // #TOmmf

repermiento e dai costo contenuto:

### My priority for the urban social innovation agenda:

According to my experience, the agenda of European cities should include this priority:

Foster STEM-oriented MOOC and peer-to-peer based learning paradigms paying a special attention to the empowerment of non formal, city-distributed spaces (Coworkings, Fablabs, Makerspaces, Hackerspaces) aimed to the promotion of an acknowledged, open-source, shared approach towards Technology.

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# Thanks for the Attention!

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