

Open Source Internet of Things & Bottom-up Innovation

@tamberg

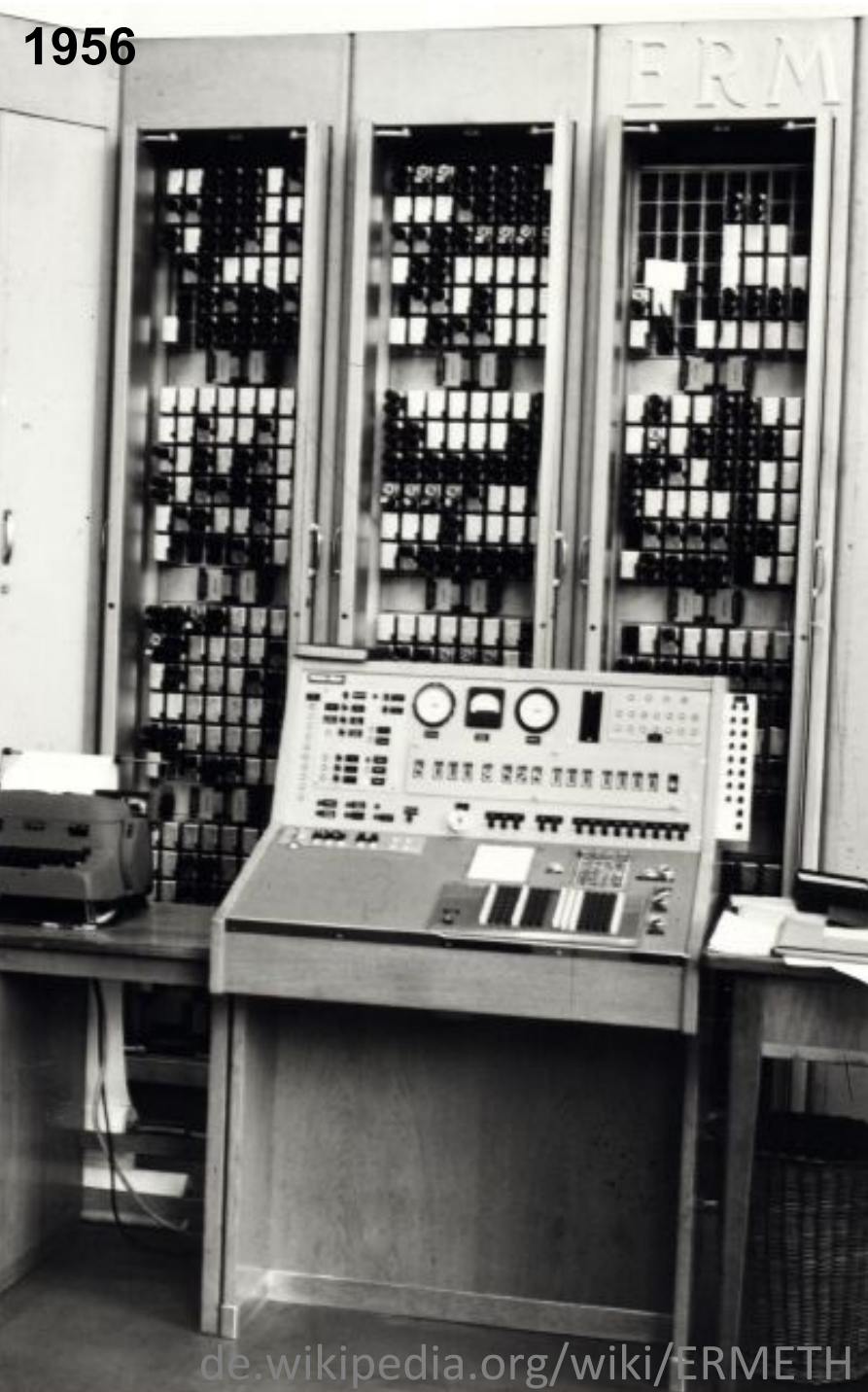
Internet of Things (IoT)

Computers with **sensors** and **actuators**,
connected through Internet-protocols

Measure or manipulate **physical properties**

<http://e-home.com/tamberg/kitchen/light>

1956



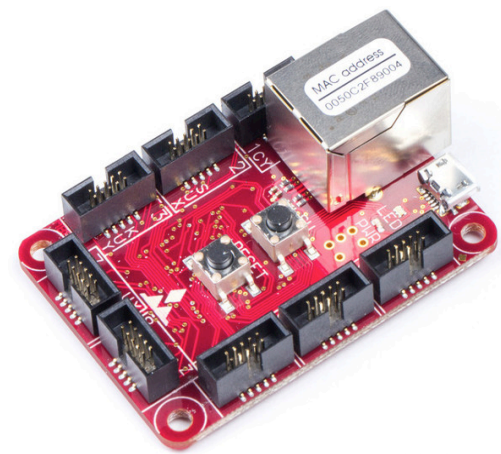
de.wikipedia.org/wiki/ERMETH

1990

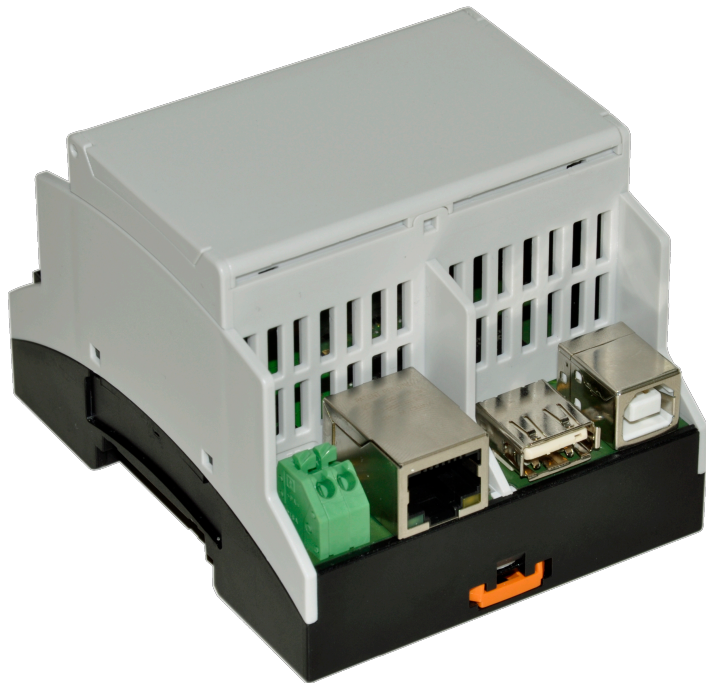
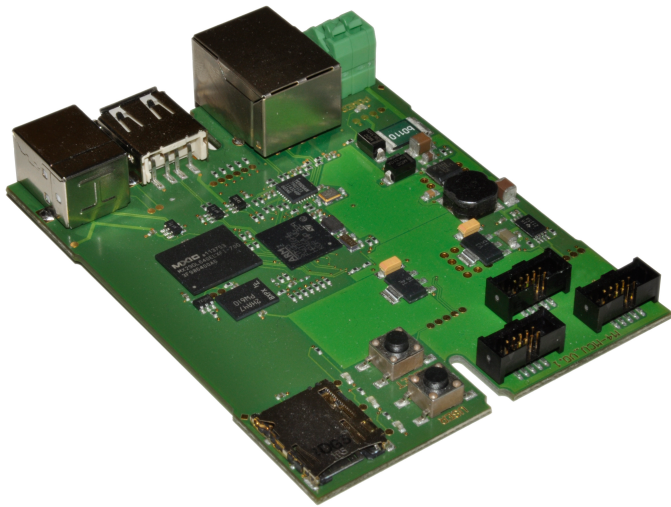


Archiv D-INFK

2012



mountaineer.org,
www.csa.ch, oberon.ch





withings.com



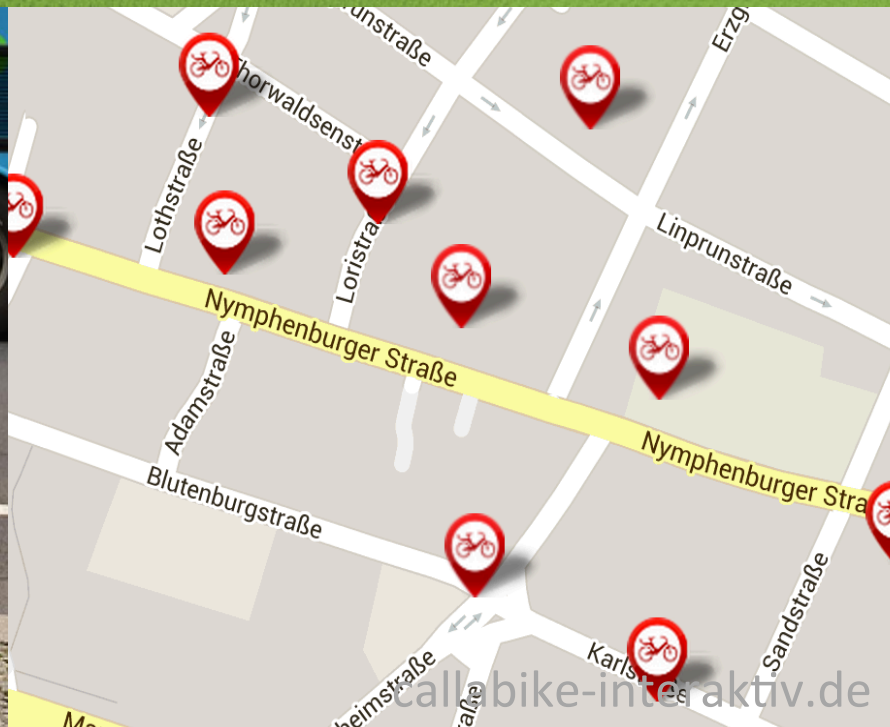
Visualize Your Progress



Play With Friends



nikeplus.nike.com





Learn more

Sign in

Join

If I don't work out for two days, I get a picture of a fat dude in my inbox.

A useful template created by the IFTTT community. [Discover similar Recipes](#)



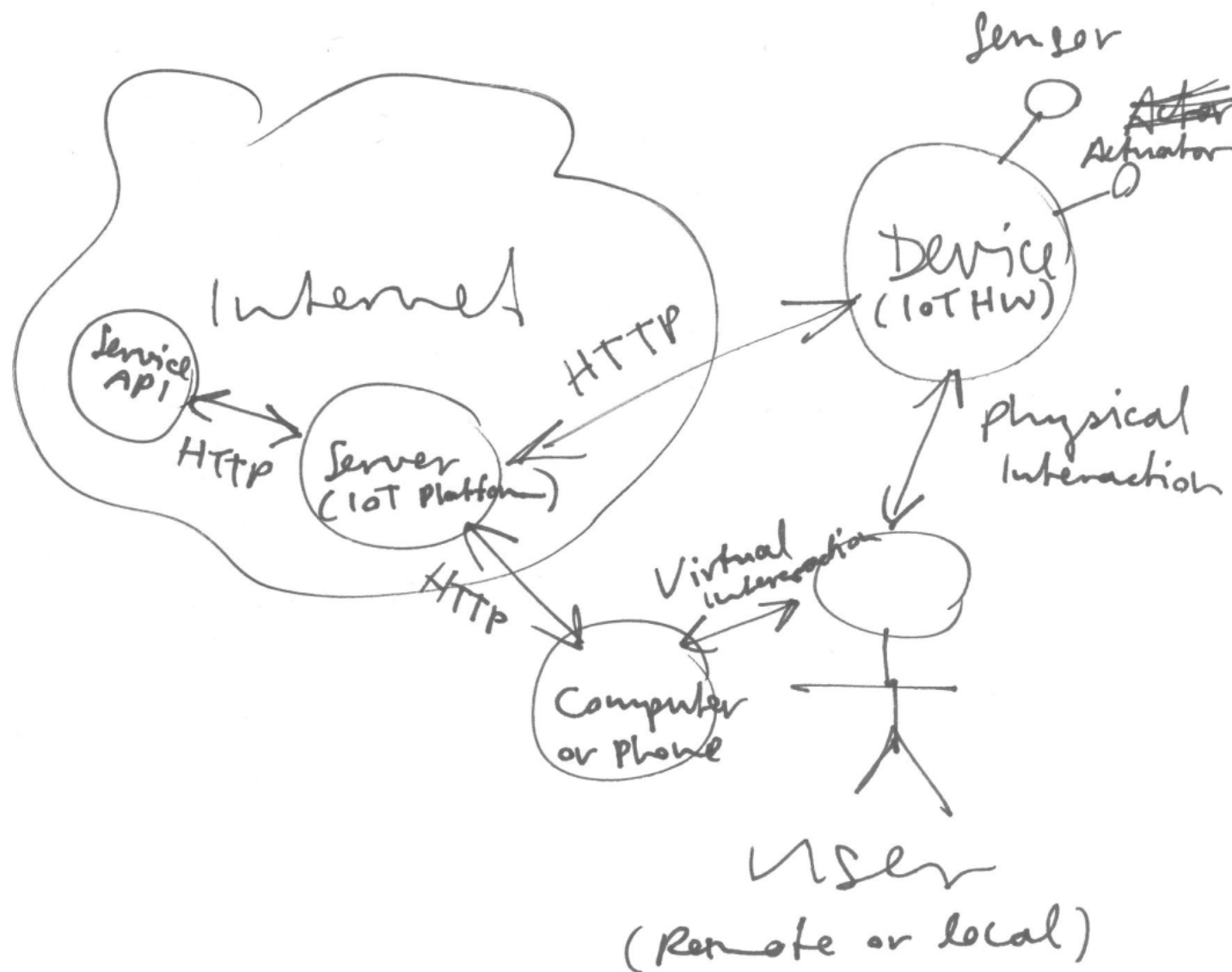
No new workouts in __ days

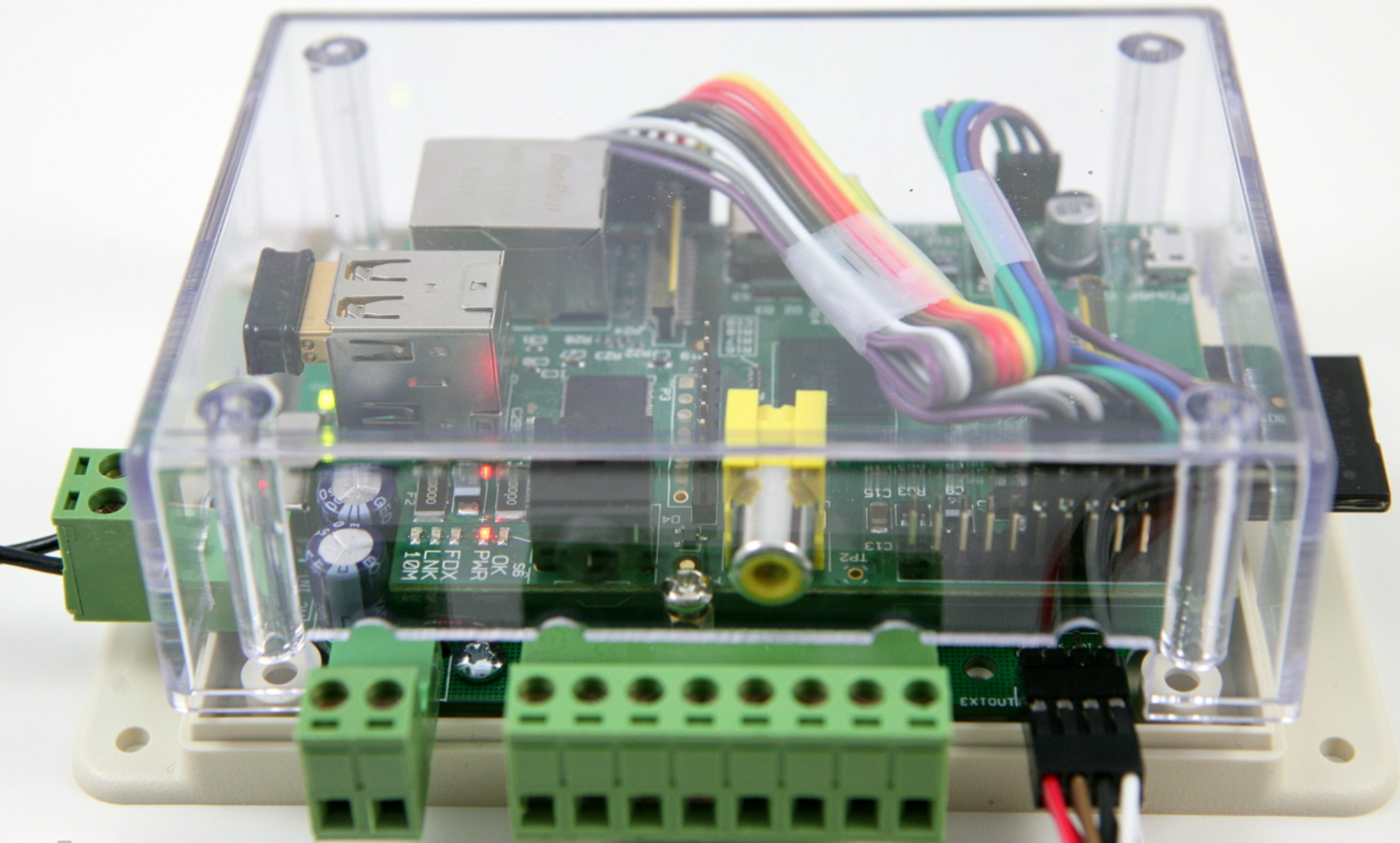


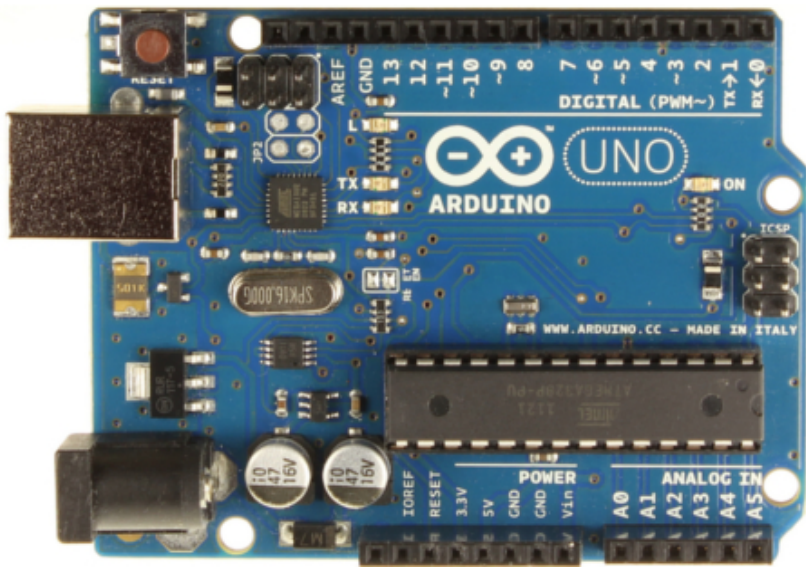
Send an email



IoT reference model







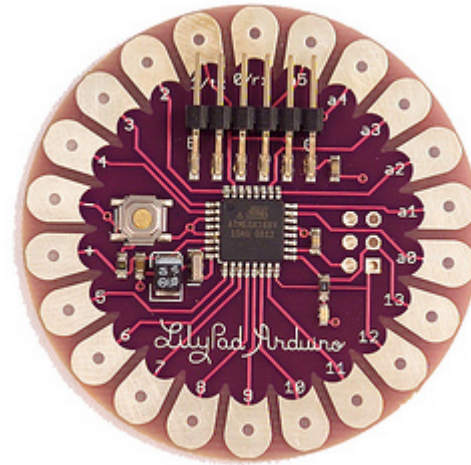
arduino.cc/en/Main/arduinoBoardUno



jeelabs.com/products/jeenode



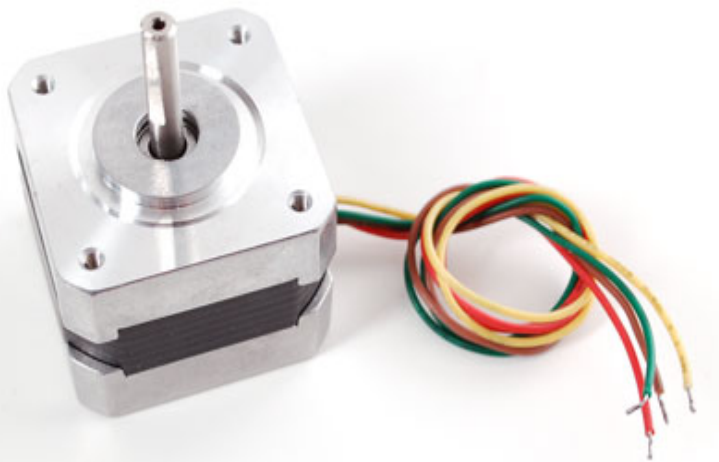
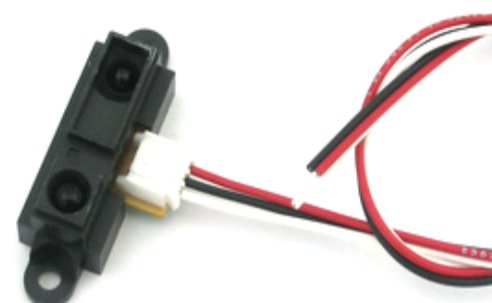
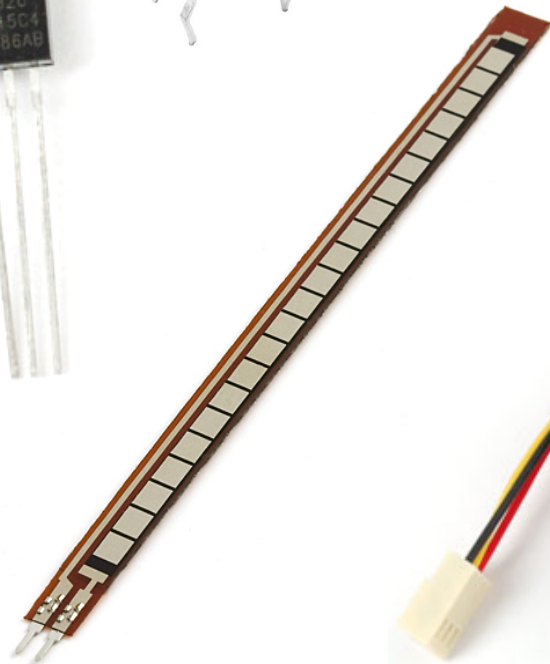
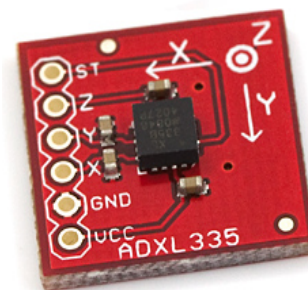
hlt.media.mit.edu/?p=2182



arduino.cc/en/Main/ArduinoBoardLilyPad



tiny-circuits.com/products/tinyduino



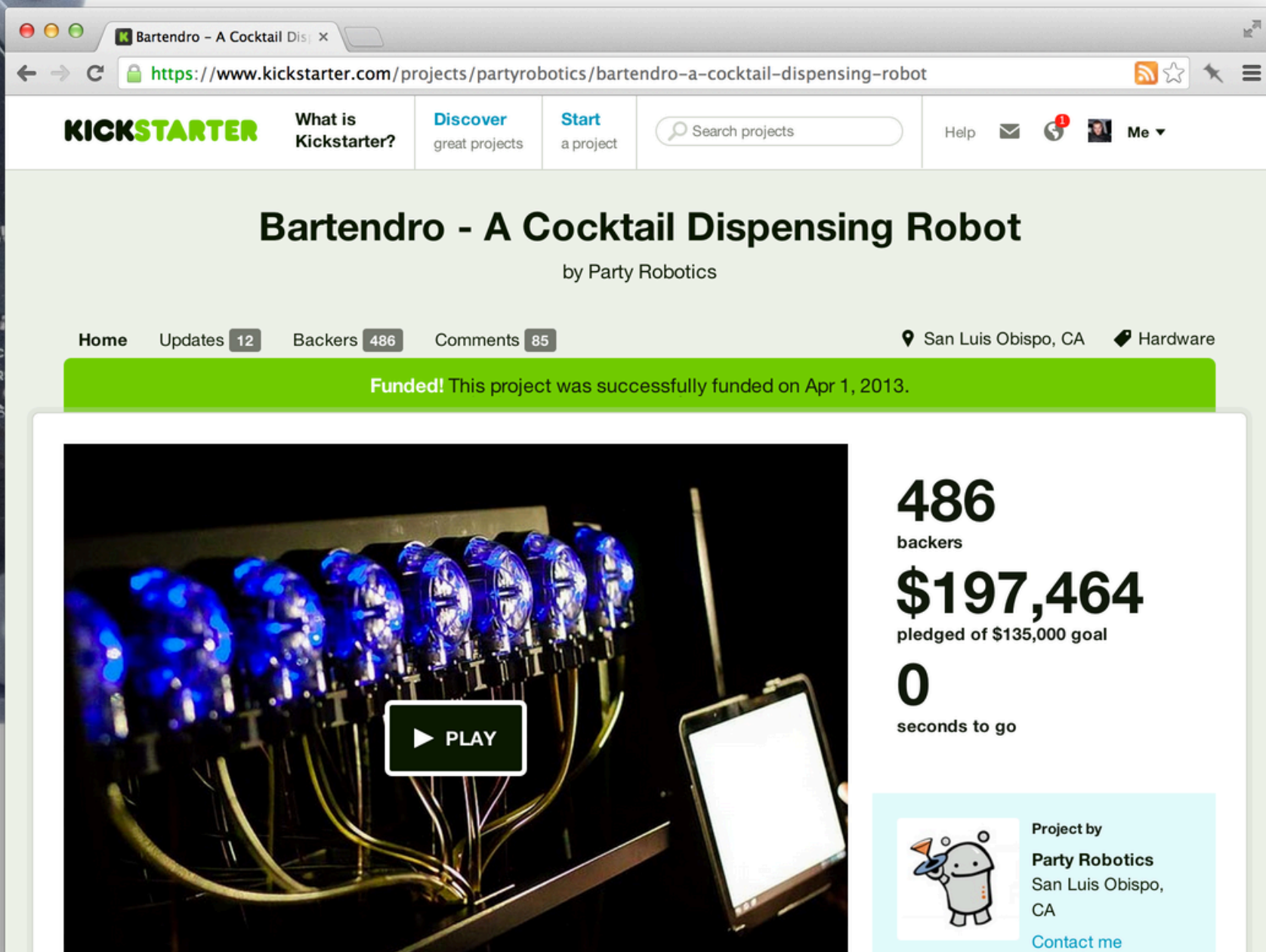




oktoberfestofthings.tumblr.com



www.mkroll.mobi





The RoboRoach: Control a

https://www.kickstarter.com/projects/backyardbrains/the-roboroach-control-a-living-insect-from-your-sm

KICKSTARTERDiscoverStartSearch projects

The RoboRoach: Control a living insect from your smartphone!

by Backyard Brains

Home

Updates5

Backers183

Comments66

Ann Arbor, MI

Hardware

Funded! This project was successfully funded on Jul 10, 2013.

THE ROBOROACH

▶ PLAY

183

backers

\$12,339

pledged of \$10,000 goal

0

seconds to go



Project by

Backyard Brains

Ann Arbor, MI

Hex: A copter that anyone

← → ↻ <https://www.kickstarter.com/projects/1387330585/hex-a-copter-that-anyone-can-fly> RSS ☆ ⚙ ☰

KICKSTARTER

What is Kickstarter?

Discover great projects

Start a project

Help

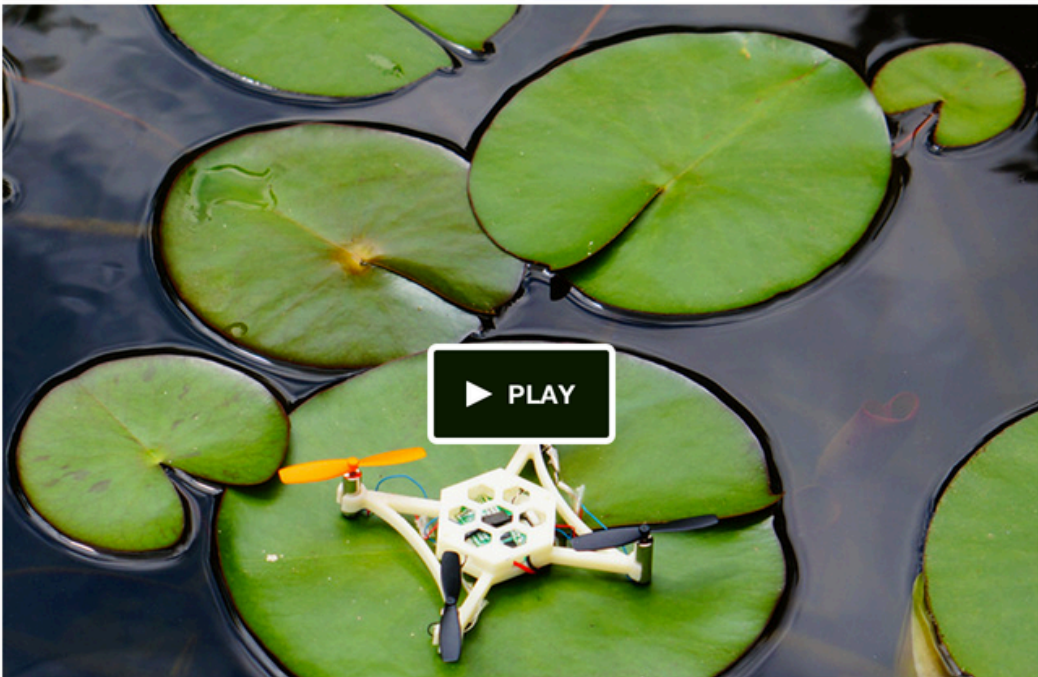
Me ▾

Hex: A copter that anyone can fly!

by Benjamin Black

[Home](#) [Updates 16](#) [Backers 4,670](#) [Comments 570](#) Los Angeles, CA Technology

Funded! This project was successfully funded on Oct 10.



4,670


backers

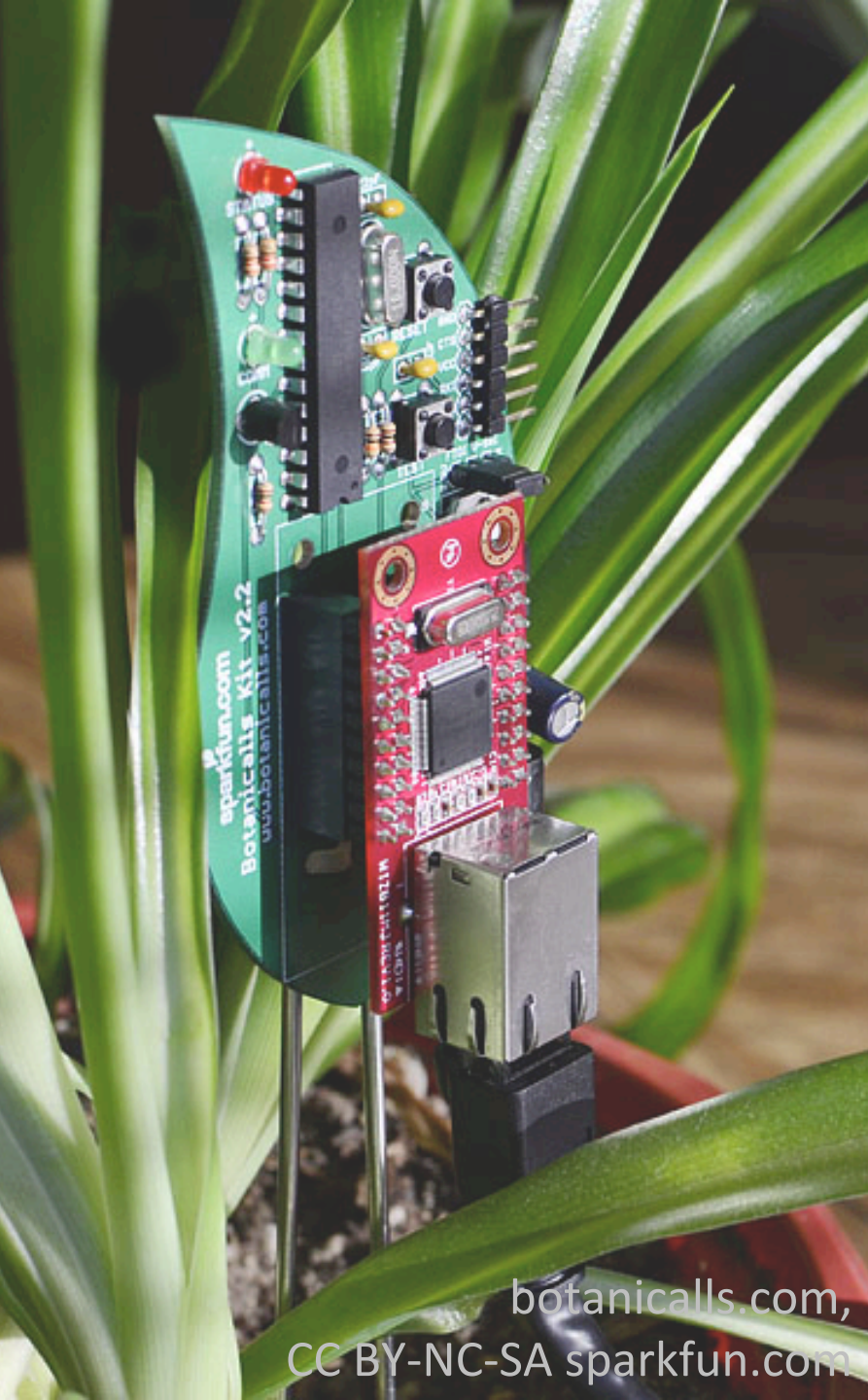
\$563,721

pledged of \$10,000 goal

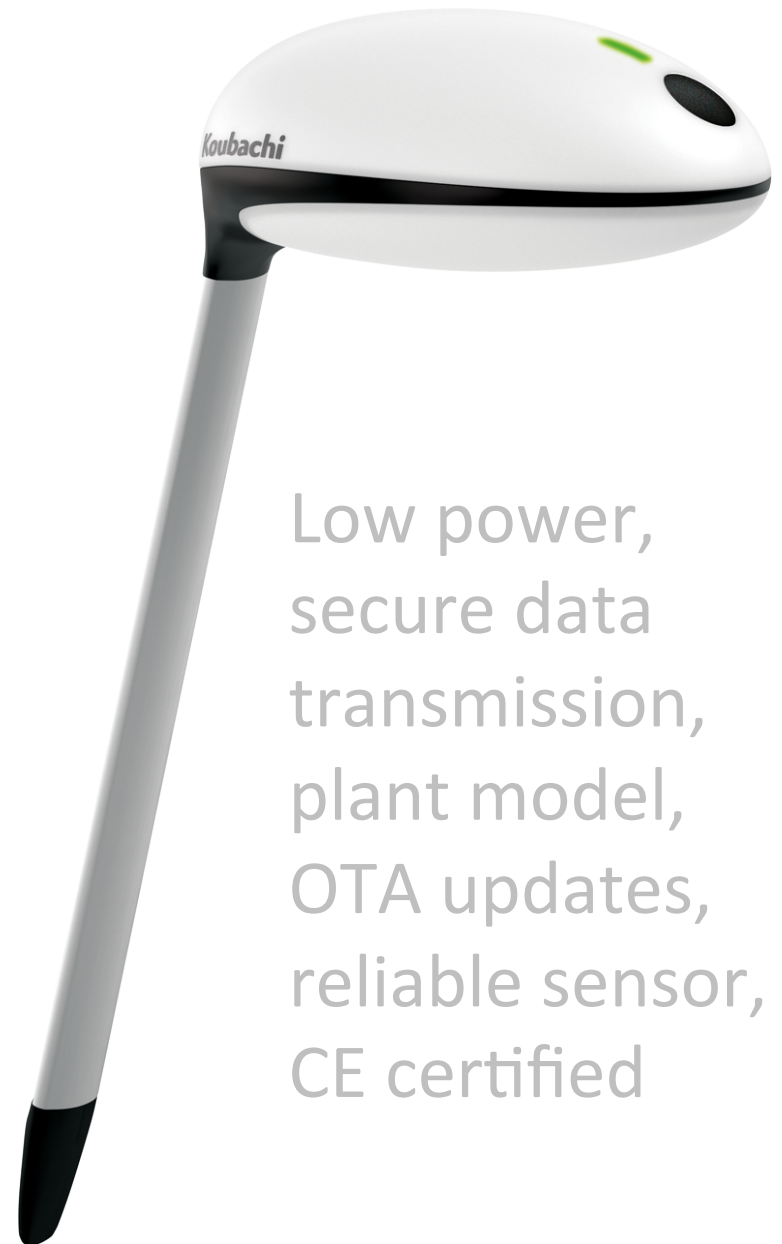
0

seconds to go

Project by Benjamin Black
Los Angeles, CA
[Contact me](#)

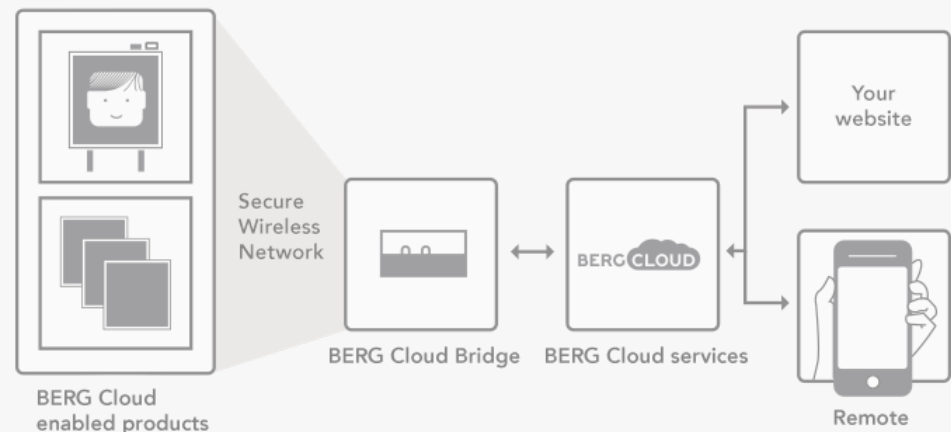
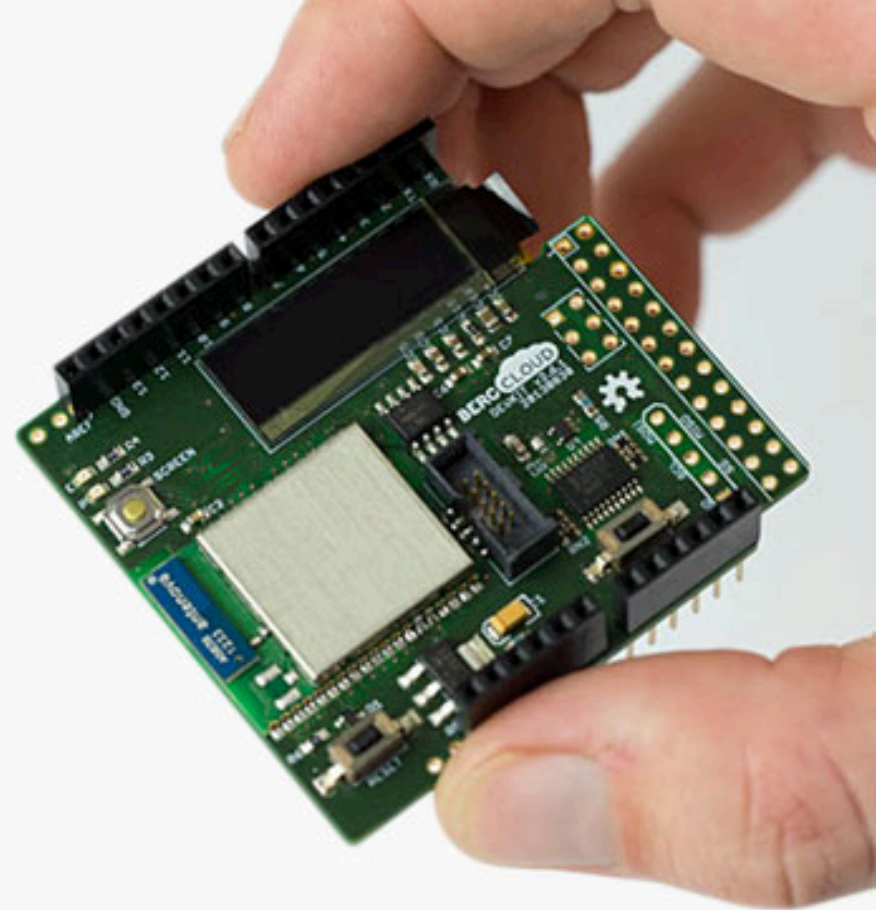


botanically.com,
CC BY-NC-SA sparkfun.com



Low power,
secure data
transmission,
plant model,
OTA updates,
reliable sensor,
CE certified

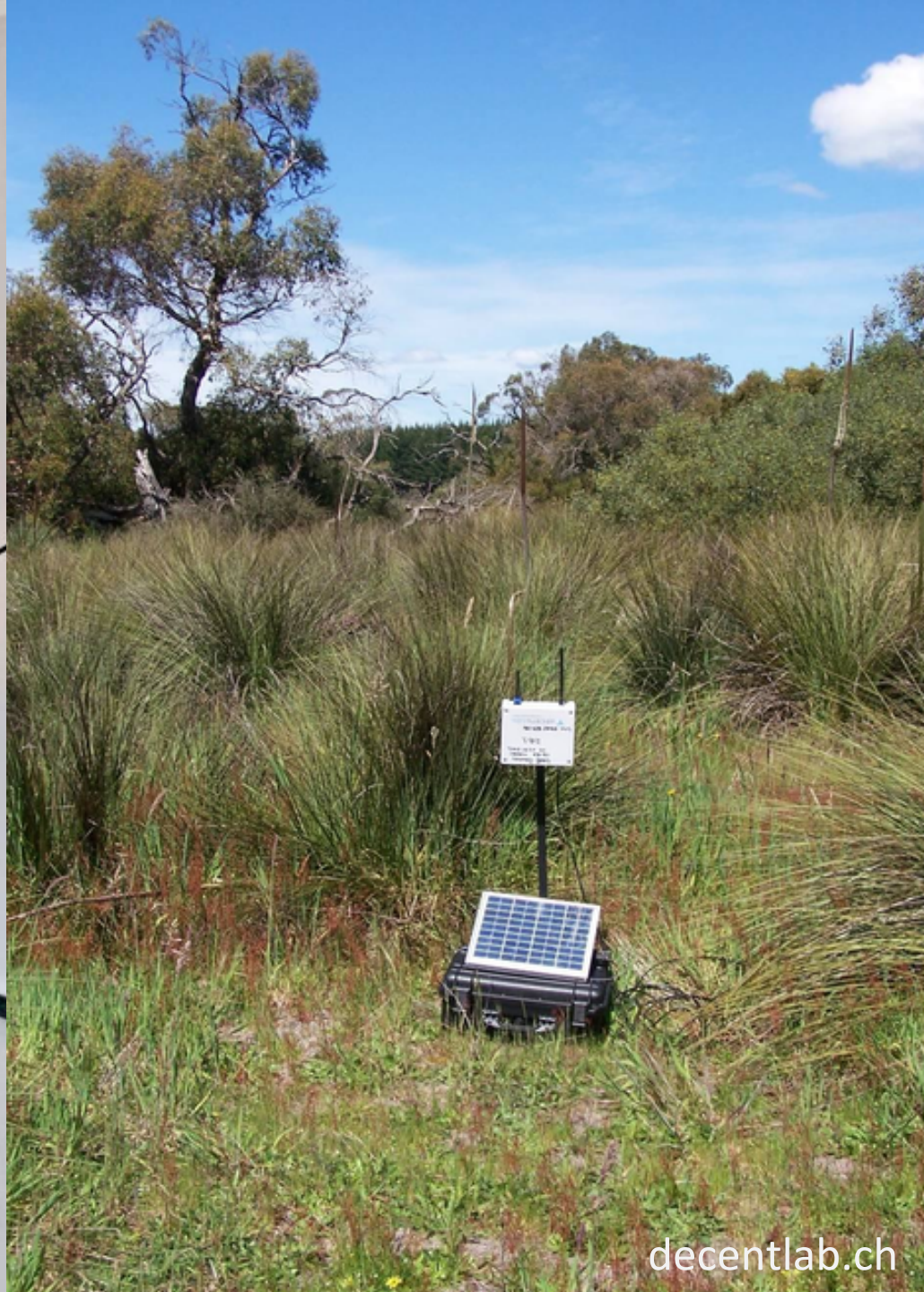
koubachi.com



bergcloud.com/platform



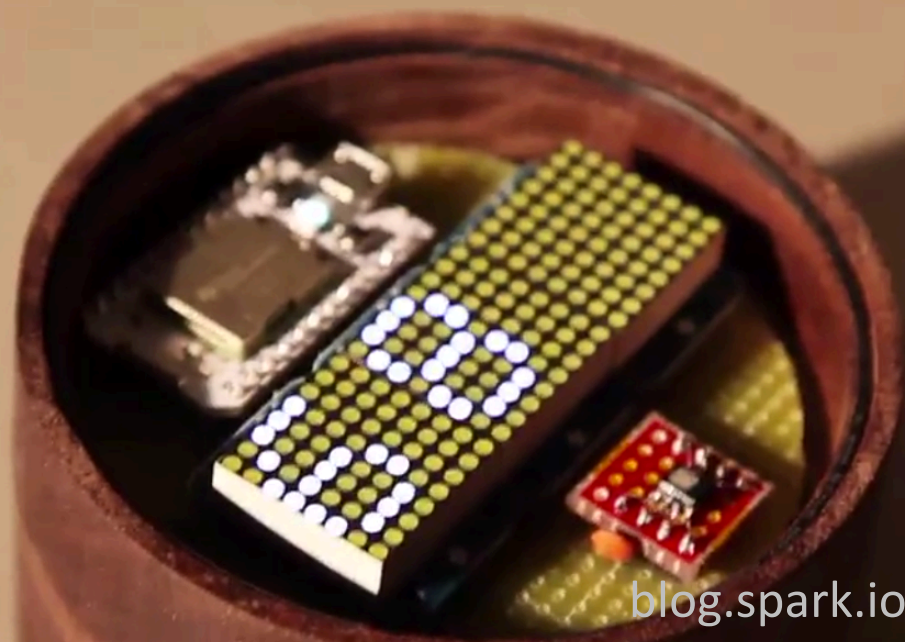
zaak.ch



decentlab.ch



nest.com/thermostat



blog.spark.io

Getting Started

Hardware at <http://shop.klingler.net/>, <http://digitec.ch/> or <http://google.com/search?q=adafruit+starter+pack>

Learn through <http://learn.adafruit.com/> and Google, e.g. <http://google.com/search?q=instructables+web+controlled>



Find Meetup Groups near

www.meetup.com/find/?allMeetups=true&radius=50&userFreeform=Zürich%2C+Switzerland&lat=47.38&lon=8.54&s...

Your Next Meetup

Feb

14

IoT Zurich

IoT and people

Friday, February 14 at 6:00 PM | 3 Comments

12

Meetups in your groups

263

Meetups nearby

All Meetups


within 50 miles of Zürich, CH

Groups

Calendar

Your Meetups

Sort by Recommended




IoT Zurich

ORGANIZER

420 Members

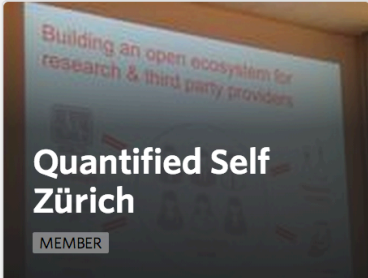
Next Meetup: Feb 14



3D Printing Zurich

ORGANIZER

204 Members




Quantified Self Zürich

MEMBER

152 Self-Quantifiers

Next Meetup: Today



The Zurich Entrepreneur Meetup Group

MEMBER

1,406 Zuripreneurs

Next Meetup: Feb 11

Thanks.

thomas.amberg@yaler.net

This presentation is online at

<http://goo.gl/fyje0j>

