



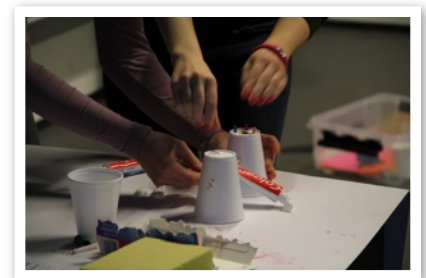
# GeekPhysical Workshops

GeekPhysical likes to play with technology. We use technology to create interactive experiences, installations, happenings, or playful rendezvous. We combine Interaction Design with Experience Design with Engineering to invent incredibly memorable experiences. We also work with an art collective called illutron in Copenhagen's South Harbour aboard the workshop/art/collaborative space known as the illutron barge. Check them out online: [illutron.dk](http://illutron.dk).

Our workshops are for the young, the young-at-heart, the corporate, the artist, the explorer, the inventor, and the thinker.

We believe everyone can benefit from learning something new and applying it to their learning processes and their everyday lives.

In our workshops, hands on learning means everyone learns enough about electricity, wiring, sensors, micro computing, motors, switches, lights, and many other fantastic interfaces so they can go home with the necessary tools to keep exploring.



We've taught workshops for organizations and companies, for children aged 5 - 18, for universities including ITU, RUC, and Aalborg, and for interest groups. The following is a sample of the workshops we offer. You can read all about our workshops online at: <http://geekphysical.com/workshops.html>

Each of the below can be customized for learning outcome, time, materials, and number of people involved.

## I. Workshops offered

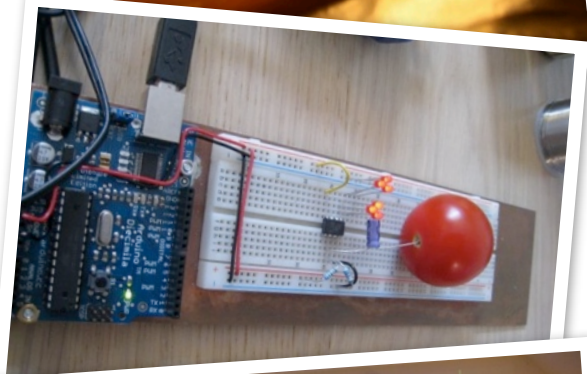
The below are an outline, each is adaptable to what you need:

**Sensing the Real World:** Explore the world beyond your keyboard - sense it and teach the computer to see, hear, taste, touch, smell, and feel the world around it and then, respond to that world through motors, lights, sound, actuators, and many other possible interfaces. Participants learn about electronics, wires, electricity, and how to use various sensors and outputs. Participants learn to use Arduino (single-board microcontroller) and Pure Data, open source, easy programming languages so no one has to have previous programming knowledge!

**Touch Me:** Touch a tomato and an LED lights up. Strange, but true, and possible using electronics. In this workshop we create electronic hardware to help you connect directly to the world around you - or to the people around you. Using capacitive touch sensing, we can make a LED light up, a song play, a motor come to life, or a computer program run when you touch an object or another person. A very fun workshop teaching the basics of electronics, electricity, sensors, Arduino and Pure Data.

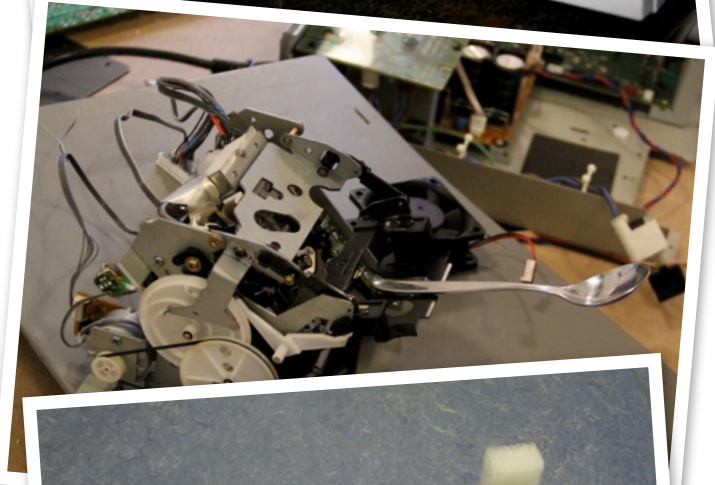
**Get Physical (3 day workshop):** Explore your body - the essence of GeekPhysical, exploring heart rate, temperature and Galvanic Skin Response (emotion). Connect yourself to the computer, and analyze how heart rate, temperature or Galvanic Skin Response is measured and how it can be interpreted as data considering noise and interference. This workshop gives participants an awareness of what goes on inside their bodies and how that data can be used for interesting associations and interactions.

**Bike Beautification:** Bikes are the ride of choice in Copenhagen, Denmark and building on LadyAda's super project, SpokePOV (<http://www.ladyada.net/make/spokepov/>) we add LEDs and persistence of vision to create an easy upgrade to add visibility and style to your bicycle. A must for any Copenhagener.





**The Office Kitchen:** Enough of the signs to clean up the kitchen, we know it, we're lazy. Instead, how about we play in the kitchen? Fun office-kitchen experiments to get your brain thinking differently, and appreciating your office kitchen so much more. An extremely fun activity, splitting the office group into two teams, and competing on... "Will it Microwave?".



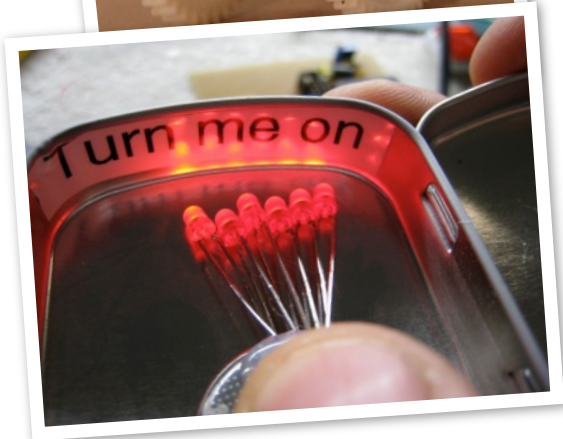
**Office Etiquette:** One should sit at their desk, type, and work nicely. But every so often, one simply wants to release some stress, and shake off the keyboard shoulders. Here we offer a workshop for office people to build toys of mass destruction. Using simple electronics and everyday materials, we help you build fun, creative toys that make the rest of the day much more enjoyable. A creative exercise teaching new ways to think about problem solving and invention.



**Creativity from Chaos:** Whether you are working in management, sales, marketing, development, solutions, strategy or media, you need to be fast thinking, creative, and responsive to both your team and your customers. In this workshop we do something completely out of the ordinary - to get you and your team thinking completely out of the box. We'll spend the day learning about electronics and electricity and working together to make several small, charming robots. Companies keep their robots as reminders of their hard work and new skills learned, and use the creativity and energy they've gained for their projects.



**Decorate your Desk:** If you have a desk, you can decorate it, and why decorate with things you buy when you can decorate with things you make, even better, interactive toys you make for yourself? A short workshop building desk-top toys for every office environment, from a miniature drum kit made from Piezos, to spy gear to see if anyone is sneaking up behind you, to a coffee heat sensor. Workshops are customized to your team's desires, making creative, interactive toys in a process which boosts communication, ingenuity and provides the satisfaction of making something for yourself.



**Turn Me On:** An adults-only workshop to create fun interactive devices. Either you know what we mean and you can email us to find out more, or you don't. Simple.

Contact us right now to set up your workshop, or to find out when our next workshop series is

running: [geekphysical@gmail.com](mailto:geekphysical@gmail.com)

<http://www.geekphysical.com>