

PHOTONIC FATALITY

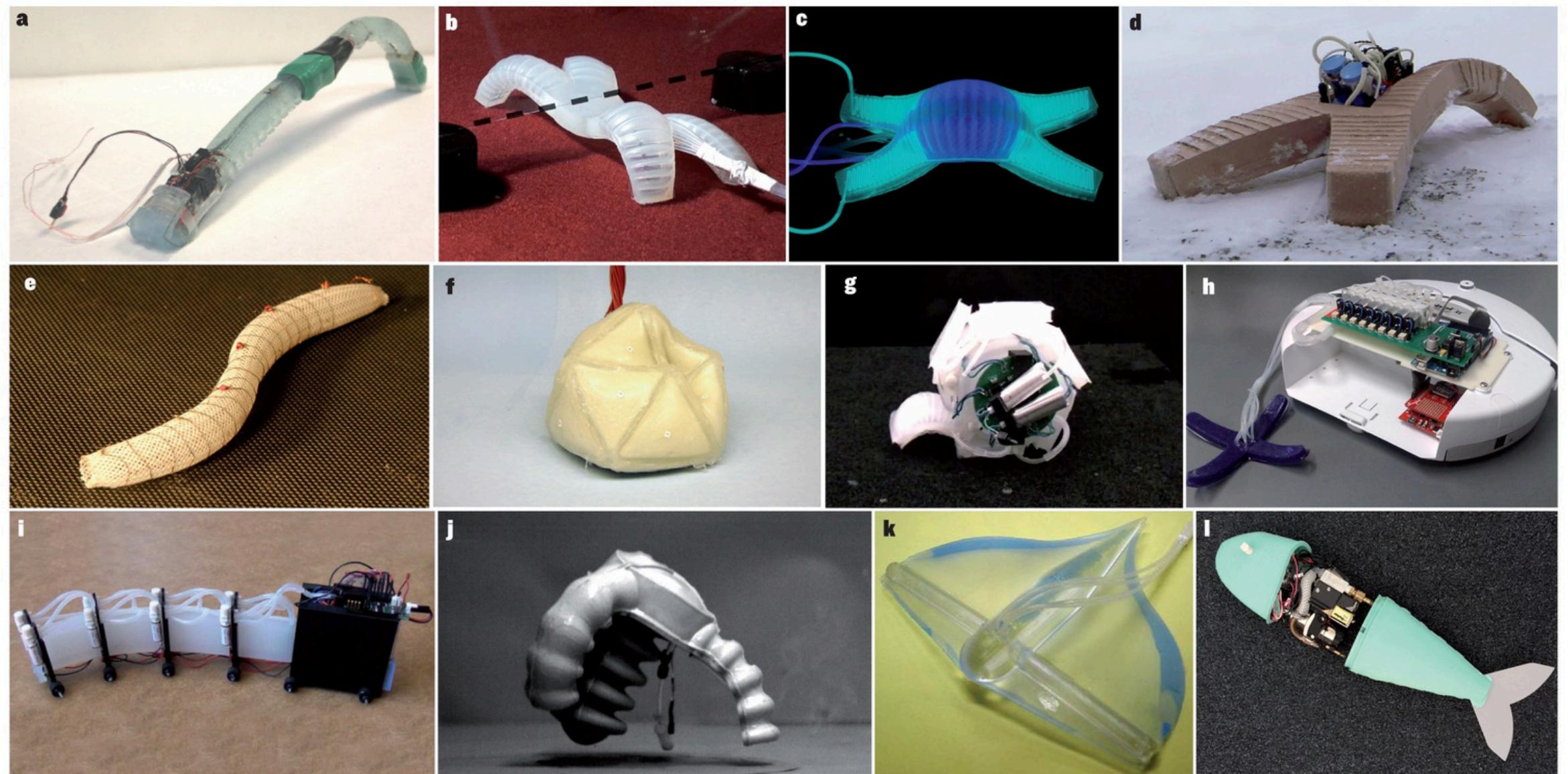
ON ROBOTIC SHORT-SIGHTEDNESS

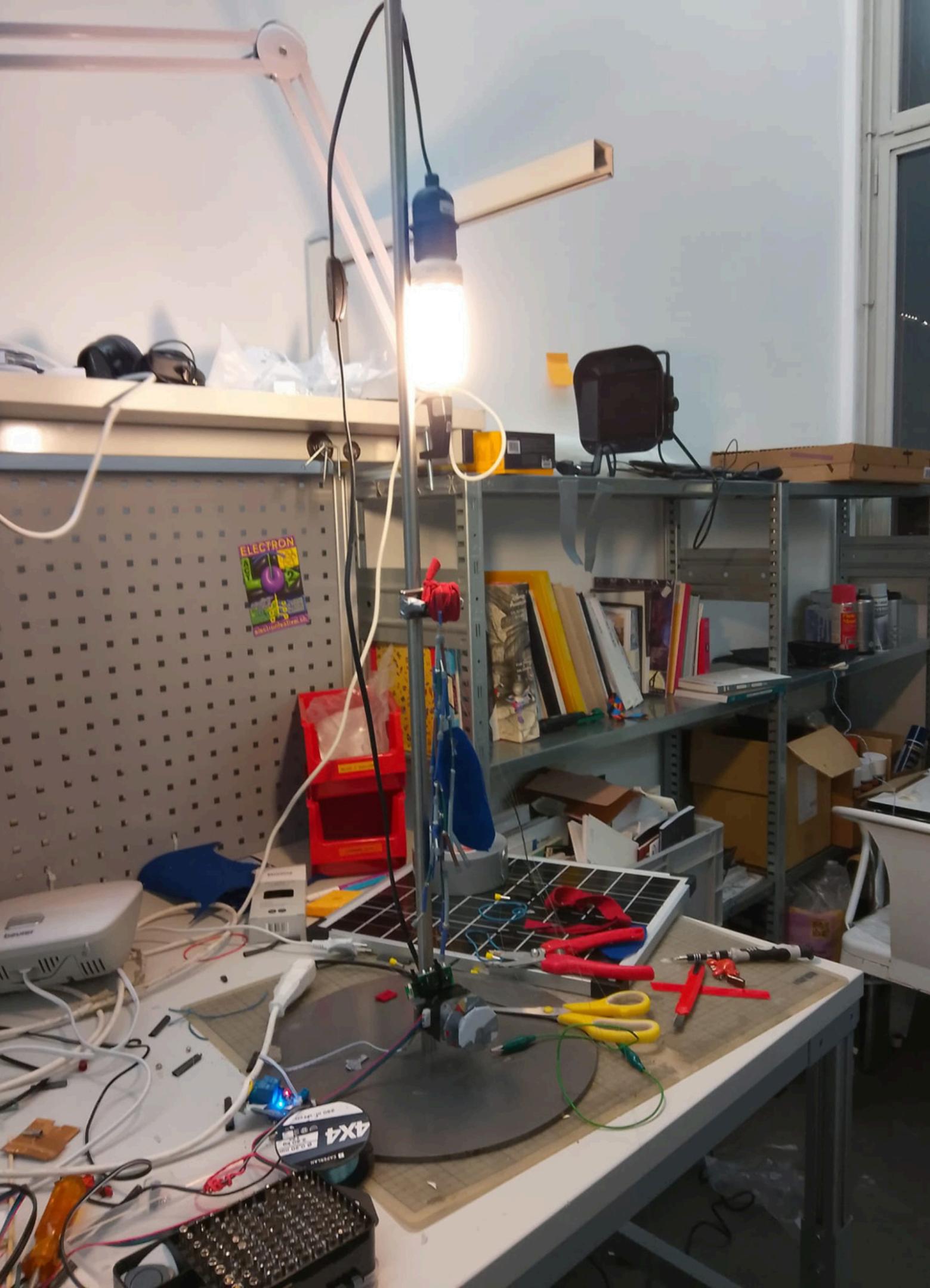


SOFT ROBOTS

Robot= embodiment of code

Soft robot = a robot that does so in a smooth, soft, elegant way and is composed of organic materials, that regenerates itself, that breathes and moves according to external natural stimuli.





MEET THE ROBOT

WHAT

A plant/anemone inspired robot that feeds itself with solar light but as it grows, it covers the solar panel that aliments itself, causing itself to die in an infinite cycle of death and resurrection, light and shadows.

WHY

Speculation and provocation on the very core usefulness of robots in our everyday life (and more).

HOW

Light detection, growth, composition and decomposition.
Soft arms that are both rigid when alive, and soft when dead.

CONCEPT RESEARCH

MAKING USELESS ROBOTS

When we are asked to build robots that help clean the environment, I thought about the energy consuming production chain that is needed to produce them.

And about the role of robots in our everyday society. Are they useful? I wanted to explore the thought-provoking mechanism of a stupid/short-sighted robot.



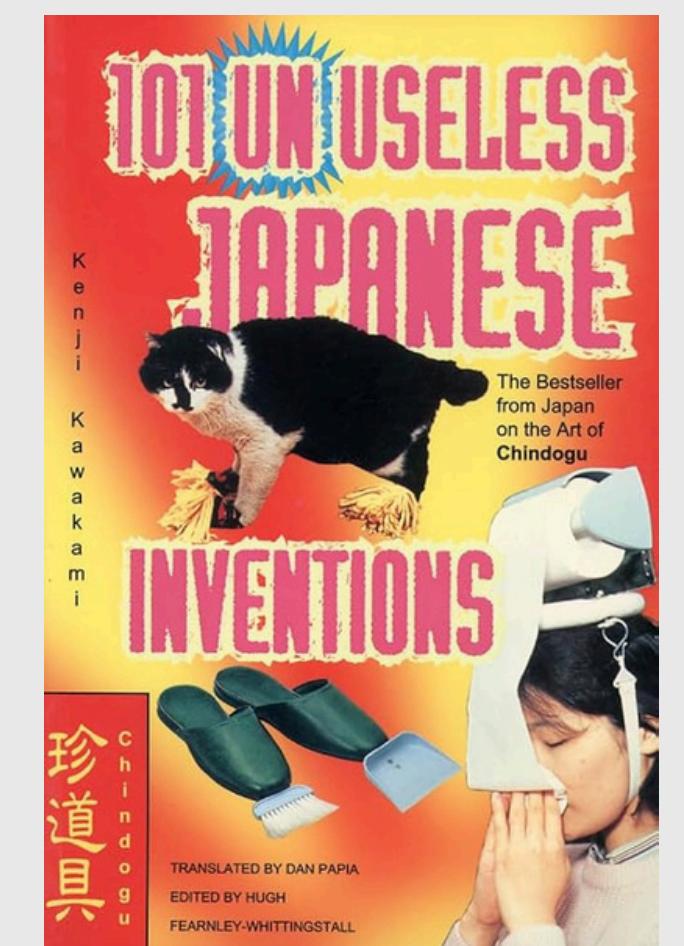
Chindōgu (珍道具) is the practice of inventing ingenious everyday gadgets that seem to be ideal solutions to particular problems, but which may cause more problems than they solve.

LINKS

[The Stupid Shit No One Needs and Terrible Ideas Hackathon](#)

[In Praise Of Useless Robots](#)

[Socially robotic: making useless machines](#)



CONCEPT RESEARCH

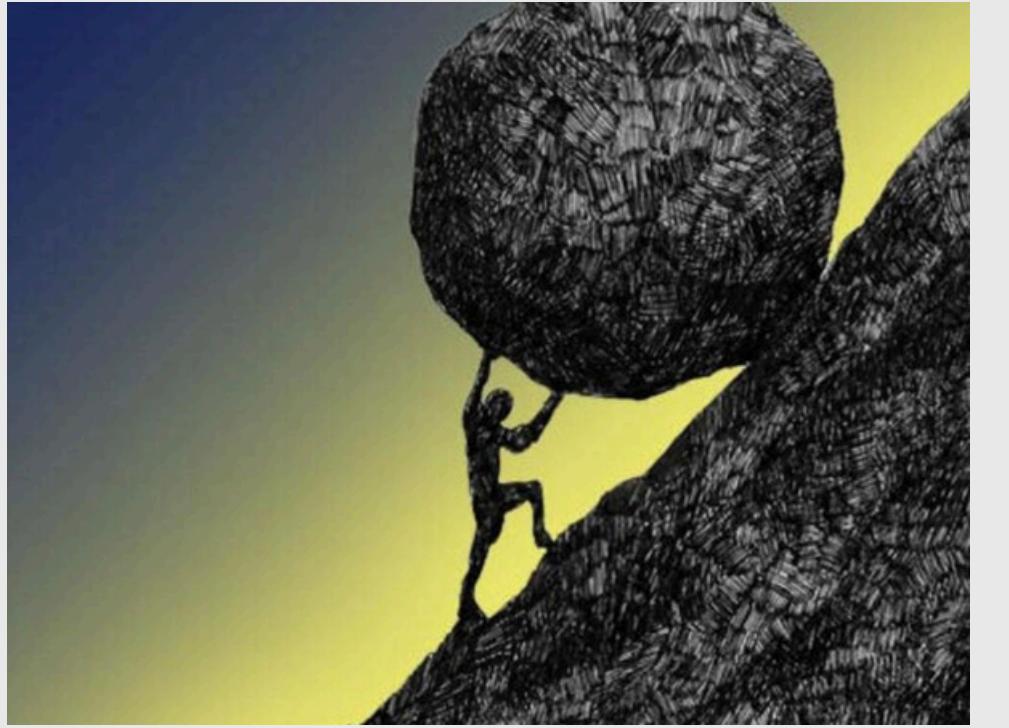
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RECURSIVE

Recursive processes – infinite actions



Sisifo



Prometeo

RECURSIVE

Recursive processes – infinite actions



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RESILIENT

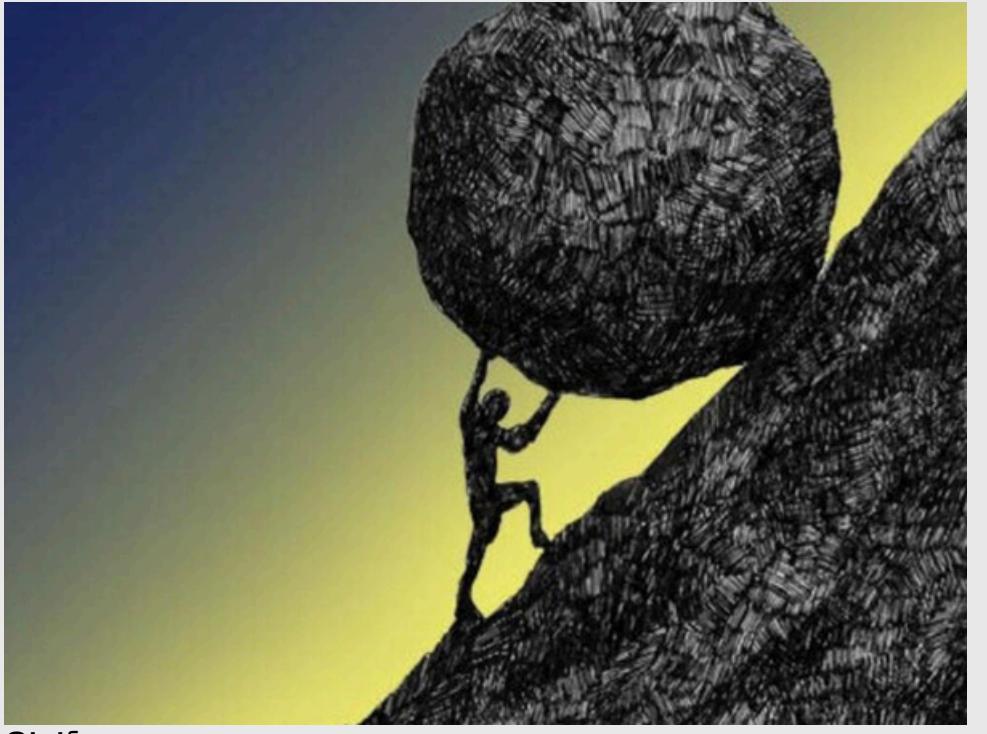
Resilient things that keep going forever – no need of external power .



Algae that purify air

RECURSIVE

Recursive processes – infinite actions



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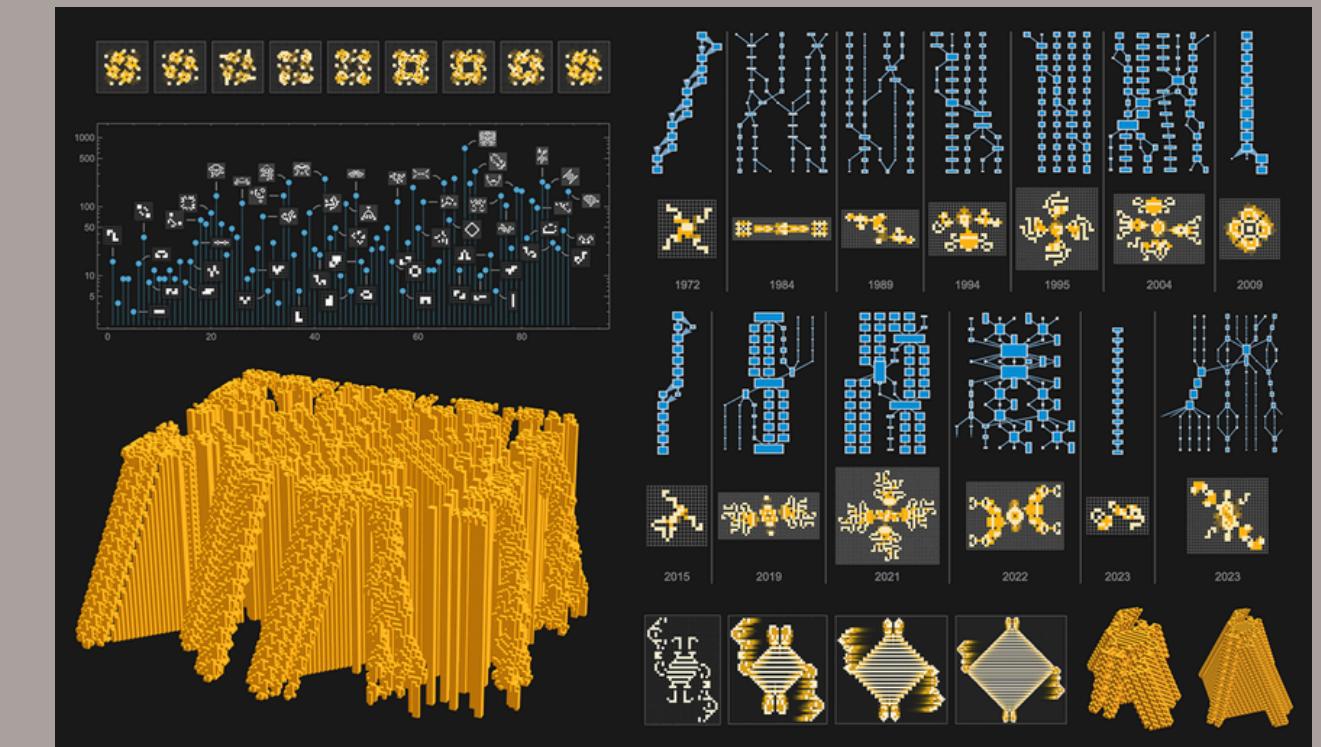
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Algae that purify air

AUTOPOIESIS

Self regulation and autopoiesis of complex systems



Cellular automata, game of life

EASTHETIC RESEARCH



Sun Yuan and Peng Yu: Can't Help Myself



Oron Catts & Ionat Zurr



driestens vestappen, the factory, 1995

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MATERIAL EXPLORATION

POTENTIAL LEAVES CONSISTENCY

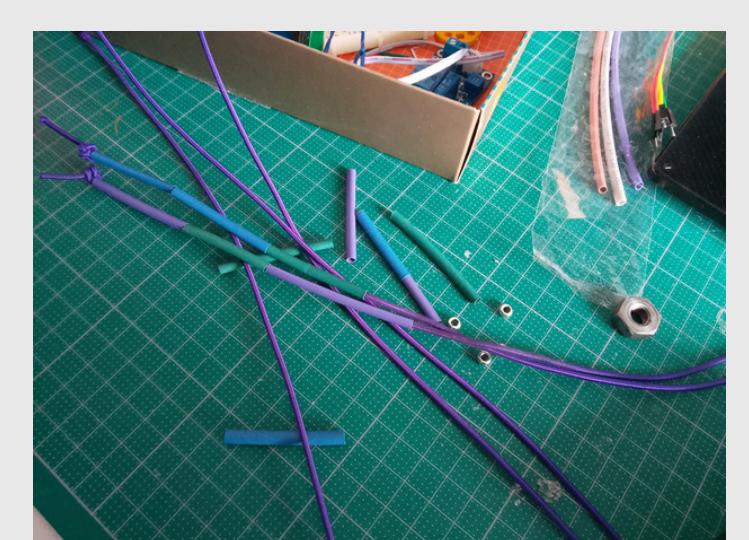
BIOPLASTIC

Agar agar
85% glycerin
water

POTENTIAL LEGS

HARD & SOFT

for the legs of the
plant/insect

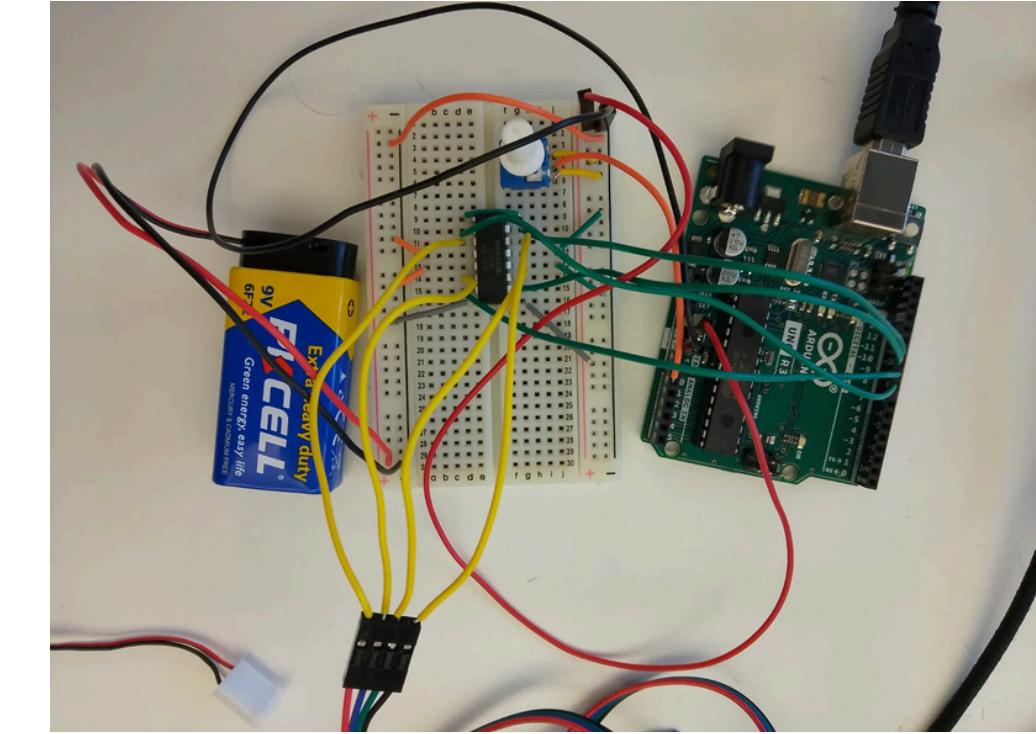
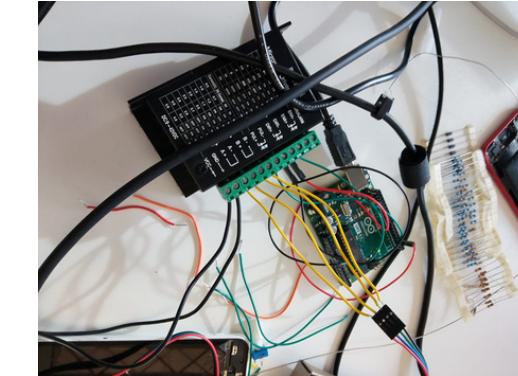




in the beginning, high ambition to power this
with small solar panel...



or an alogen lamp...

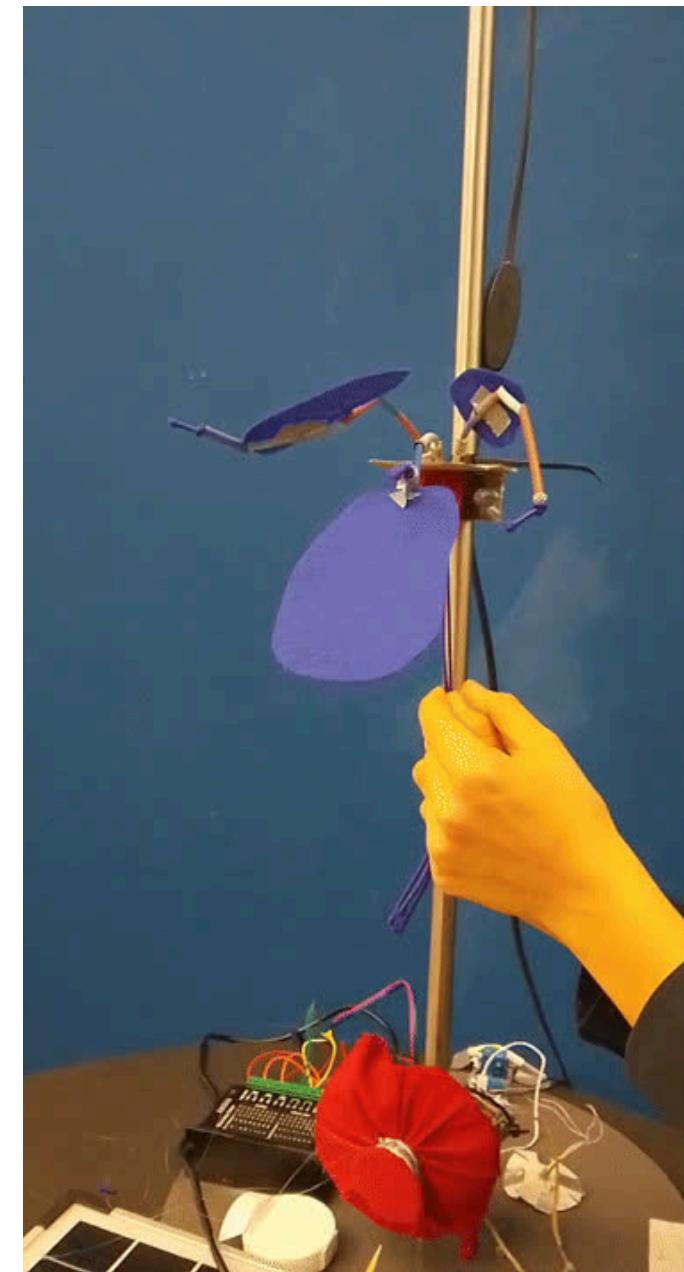
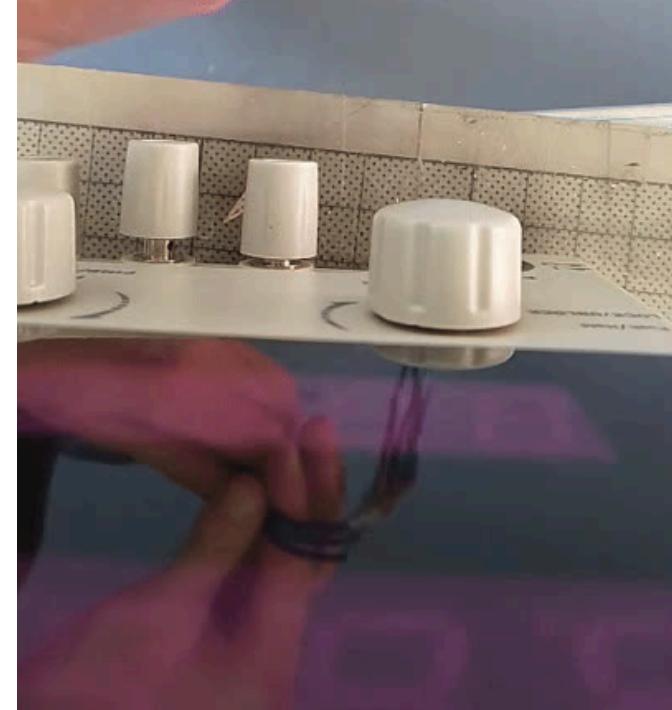
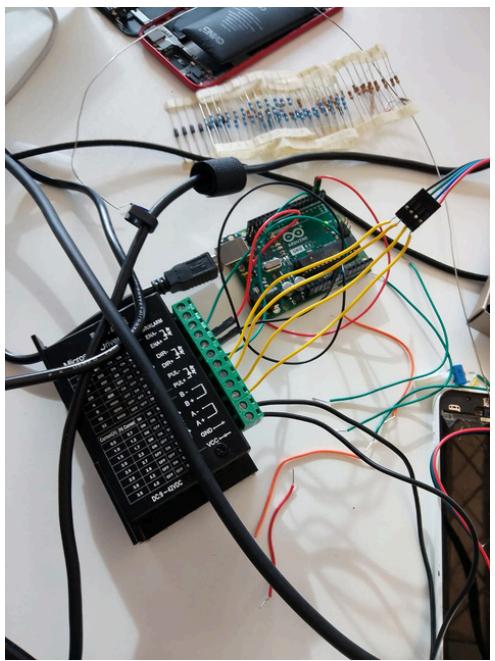
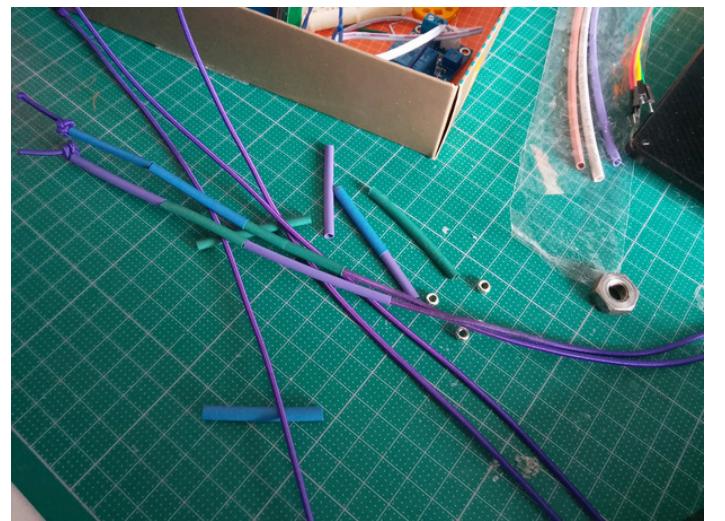


SOLAR PANELS

- are inefficient
- output very low amperage
- need batteries or capacitors to give constant input

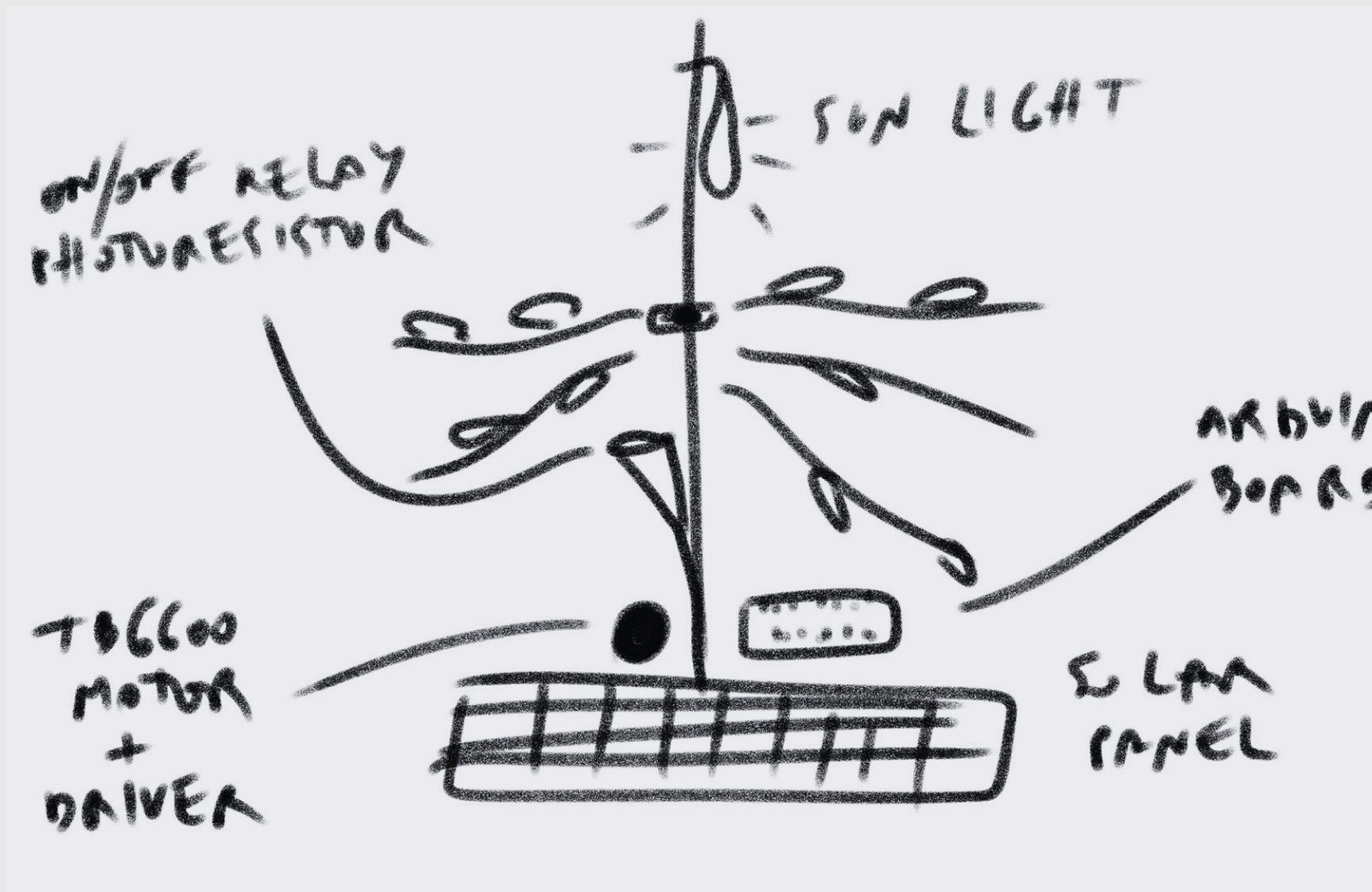
ENERGETIC EXPLORATION





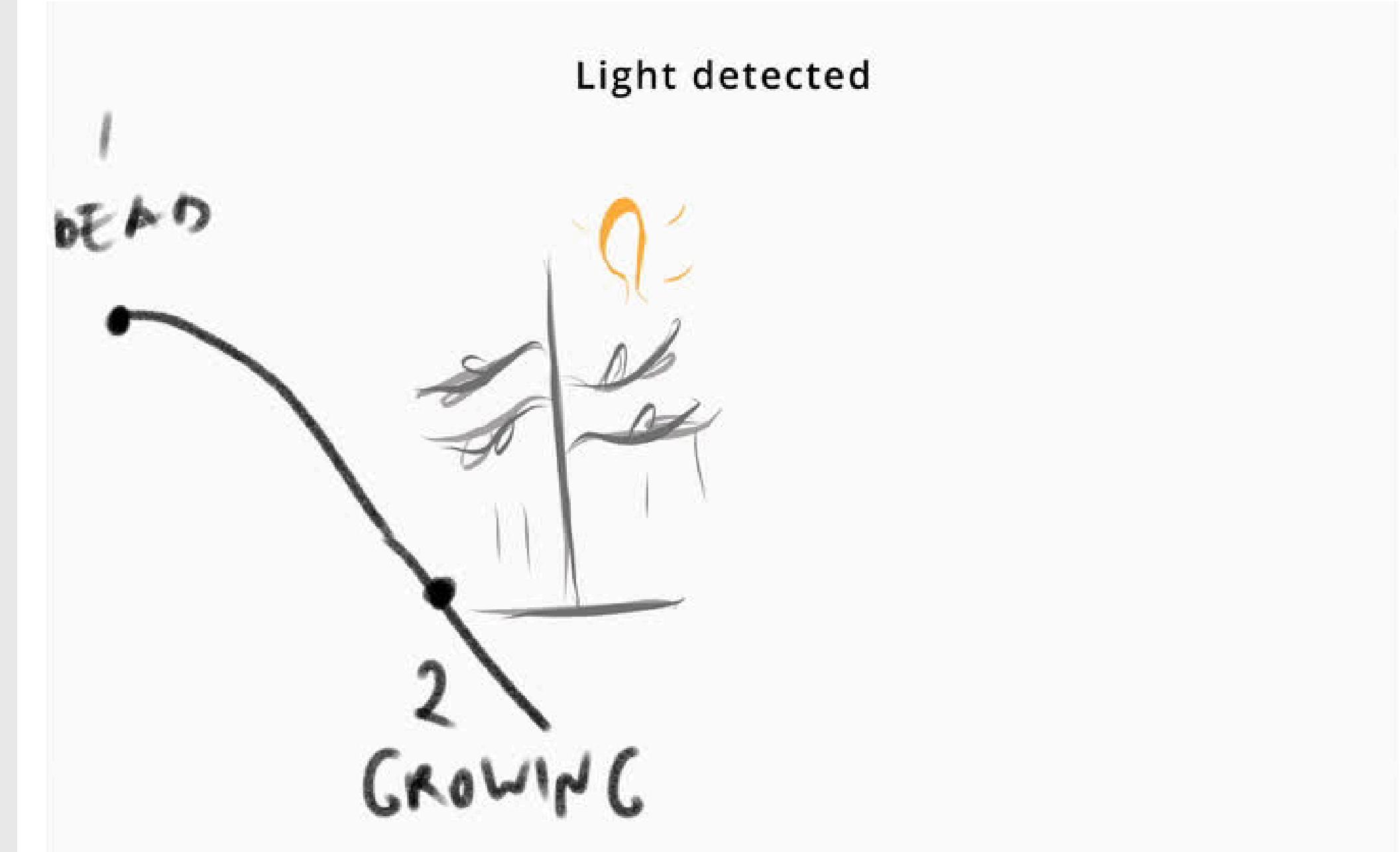
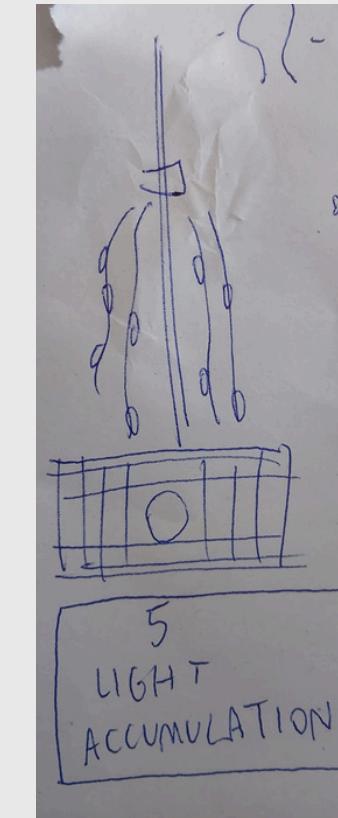
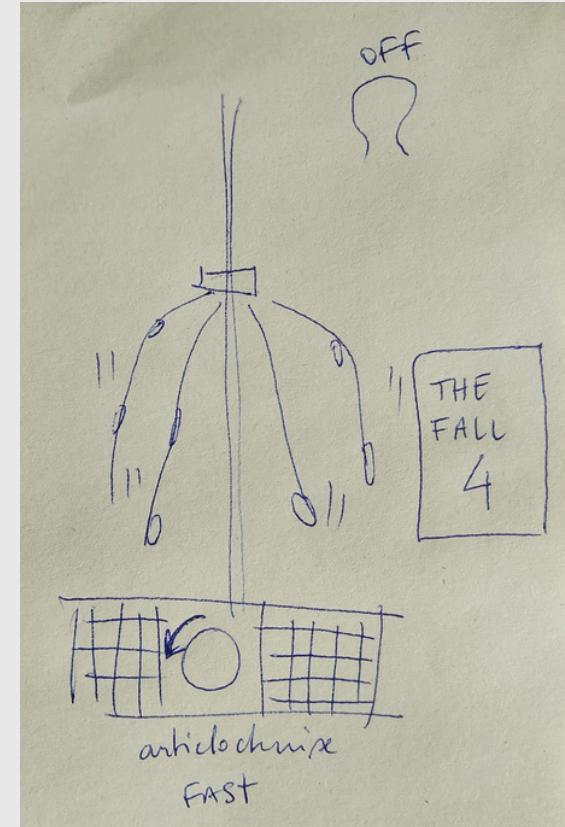
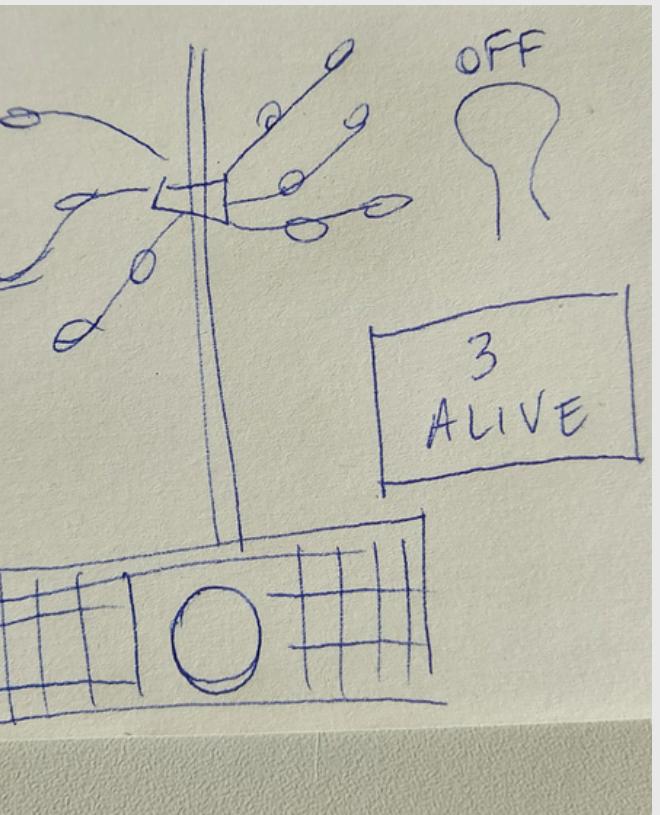
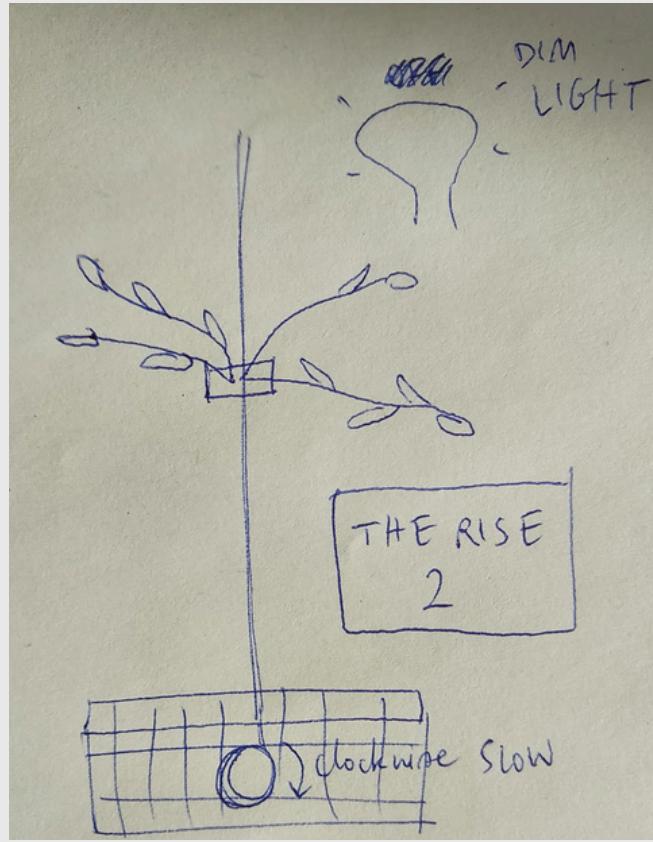
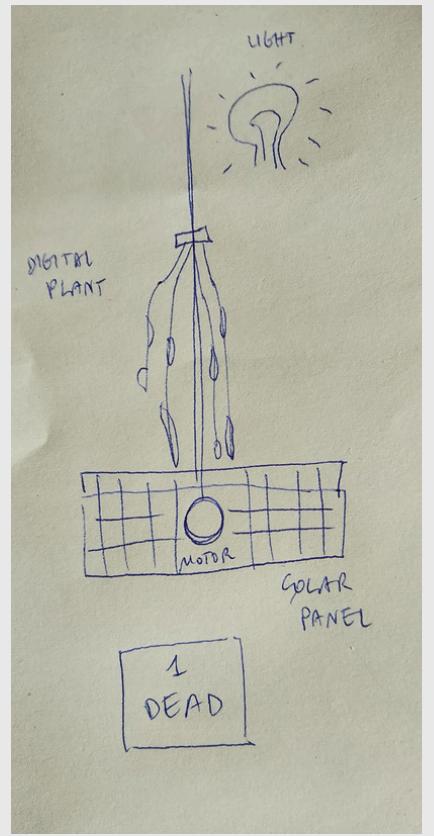
PROCESS

COMPONENTS



Straws (all materials)
felt
elastic
a looot of tape
Lisa's t-shirt
solar panel
old iphone5
photoresistor
relay
arduino board
light bulb
stepper motor
stepper motoor driver
cables, cables, cables
beeds
wires
etc

MECHANISM



DEMO