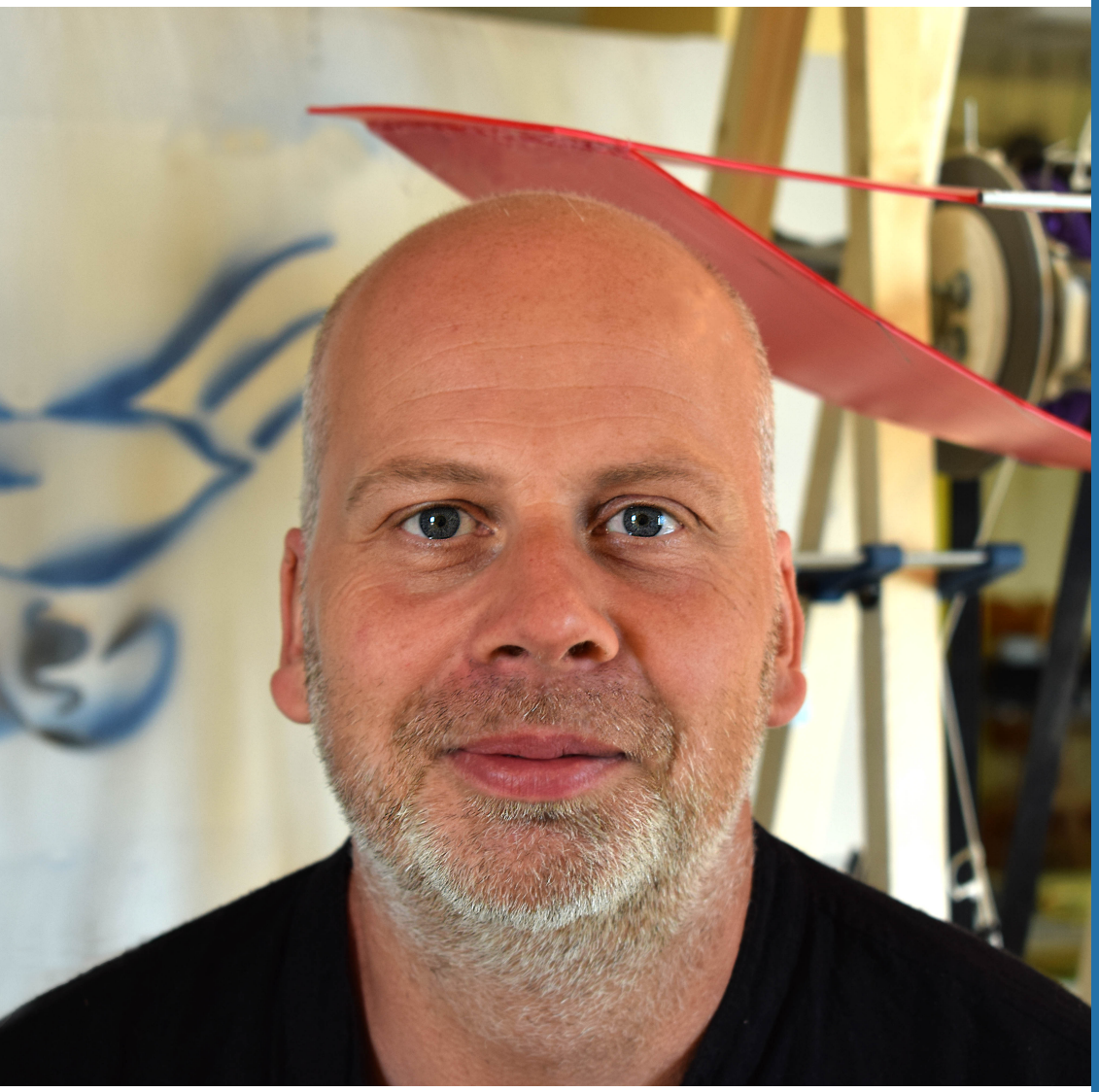
Enebird

TECHNICAL EXPLANATION

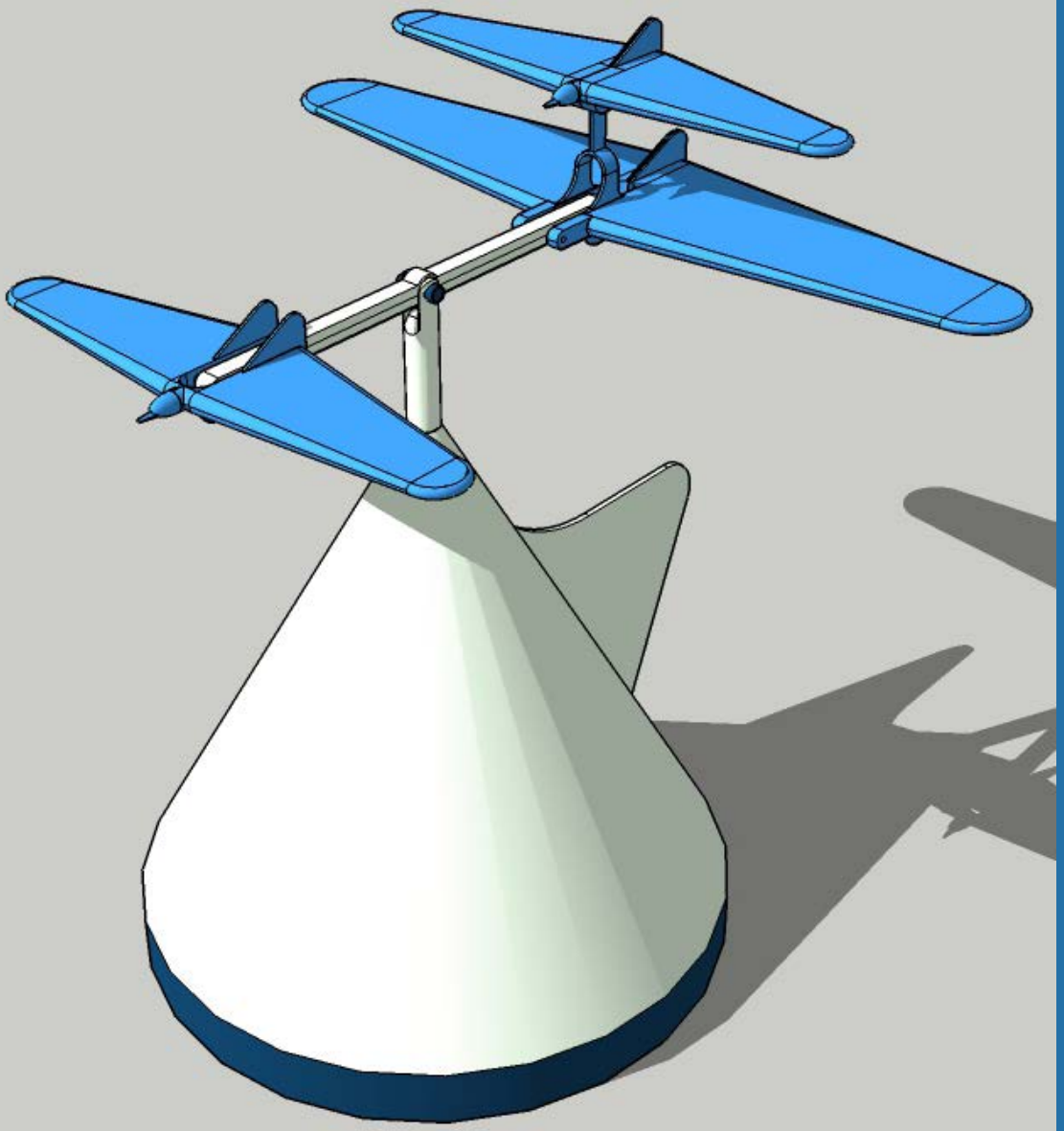


Hello, my name is David Jan Schlesinger.

I’m the inventor of the **EneBird** technology and CEO of EneBird Inc.

In this document, I will explain to you how our patented technology works.

It is a wind-energy harvester **without a rotor.**



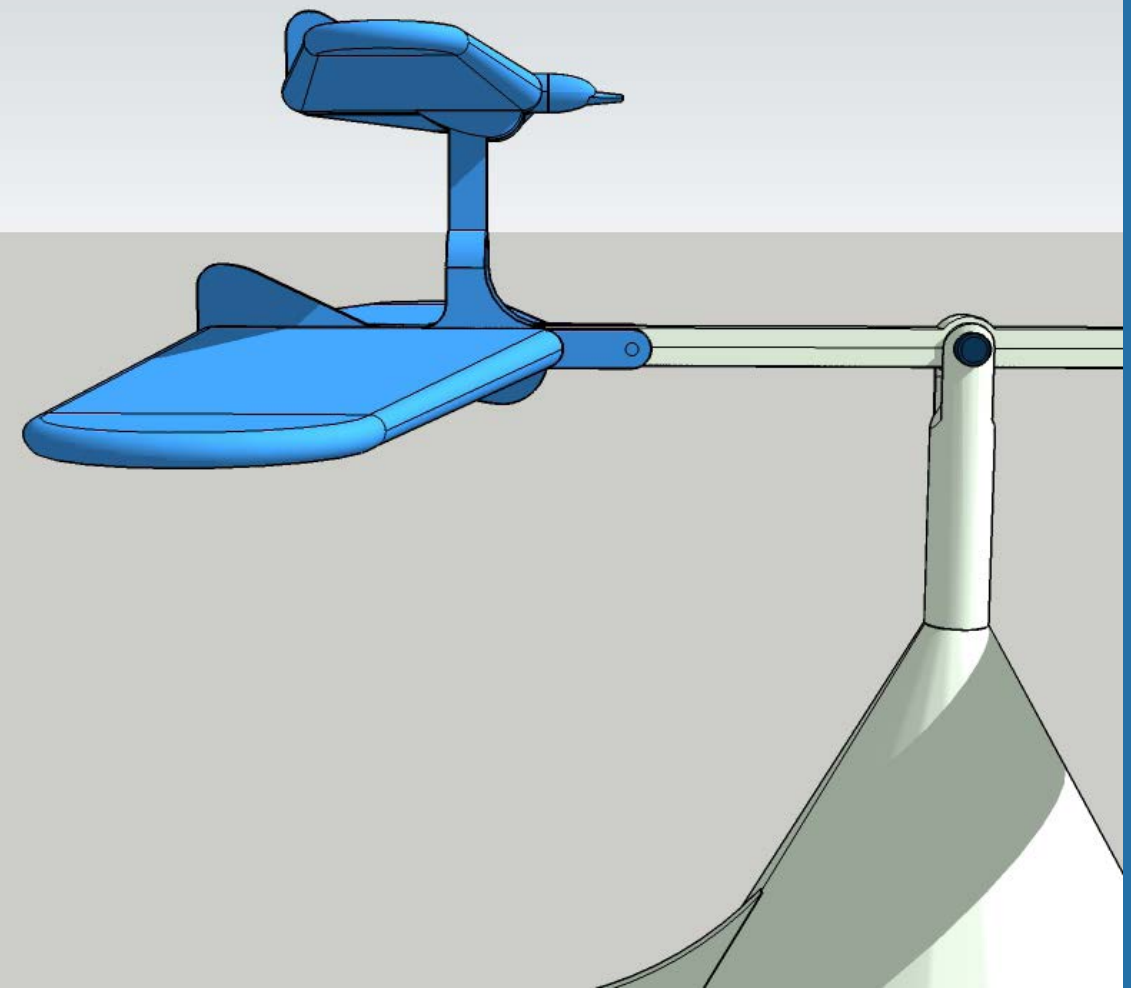
Enebird EWDG - Concept Model

We claim that wind-energy-harvesting by wings is much more effective than traditional windmills, especially with low wind speeds.

Our invention uses synchronized mass-spring oscillators to achieve its goal.

This makes our invention cheaper to build, more easily sizeable and extremely effective when multiple wind-energy-harvesters are grouped together closely.

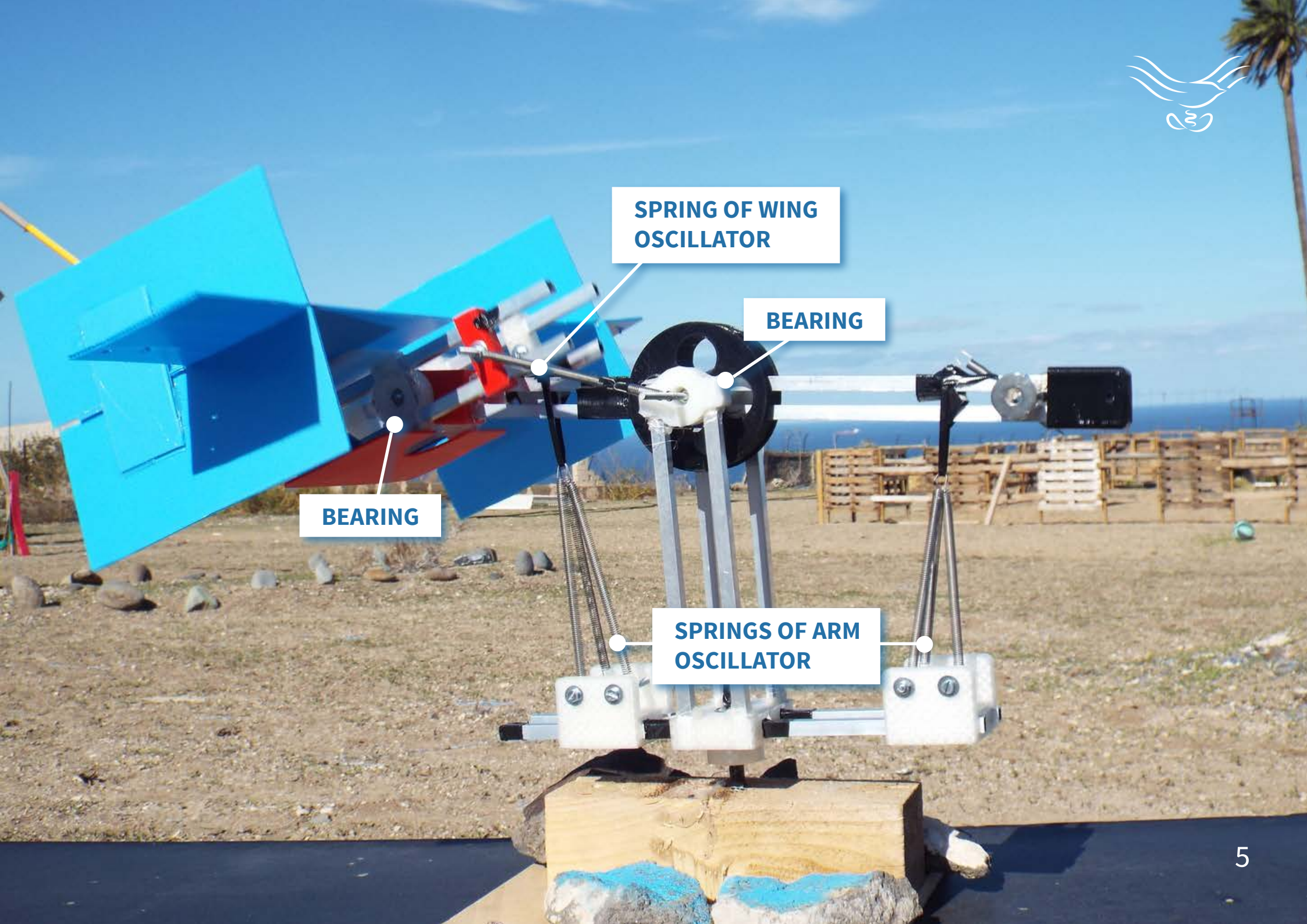
Besides, our wind-energy-harvester is usable in more different situations – even in places where turbines cannot be used or are not allowed to be used. The Enebird technology works noiselessly and near the ground – even in turbulent air.



The Enebird technology consists of at least two synchronized inertia-spring oscillators.

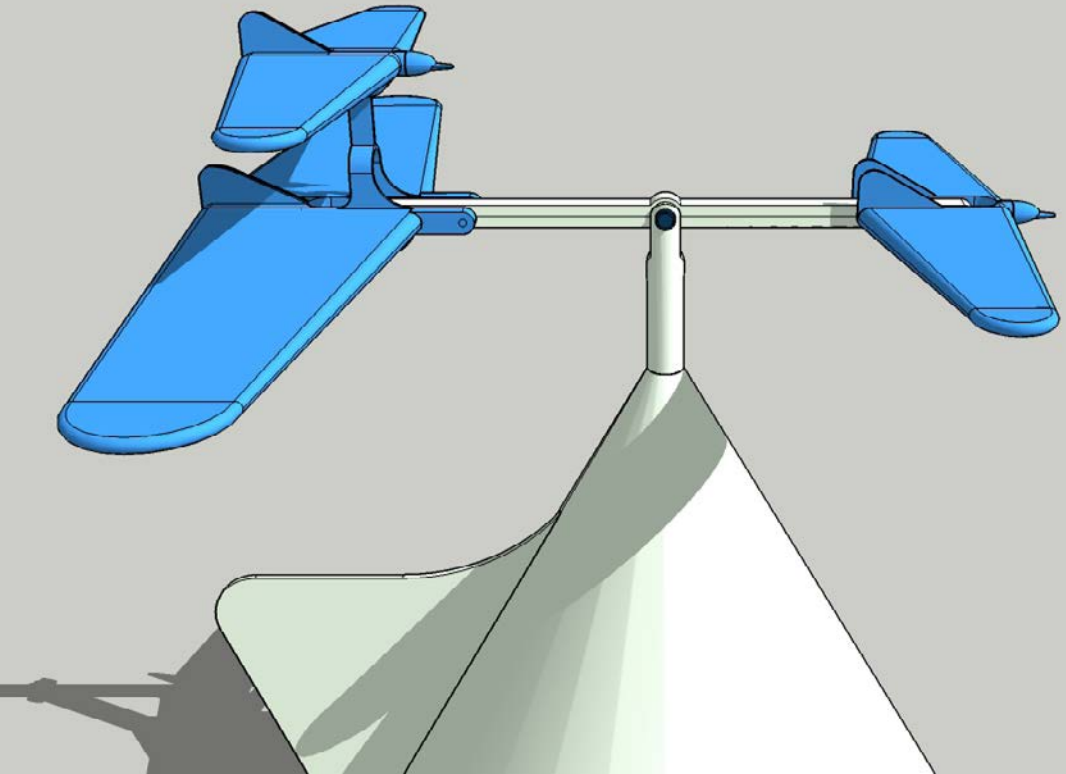
The wing sits on bearings and is connected to a spring. The stiffness of the spring and mass of the wing define a non-changing frequency of this element, called “self-frequency of the wing-oscillator”.

It does not matter how much wind blows, **the wing swings always in the same frequency,** which is low, unhearable and not dangerous to humans or animals.


SPRING OF WING OSCILLATOR
BEARING
BEARING
SPRINGS OF ARM OSCILLATOR

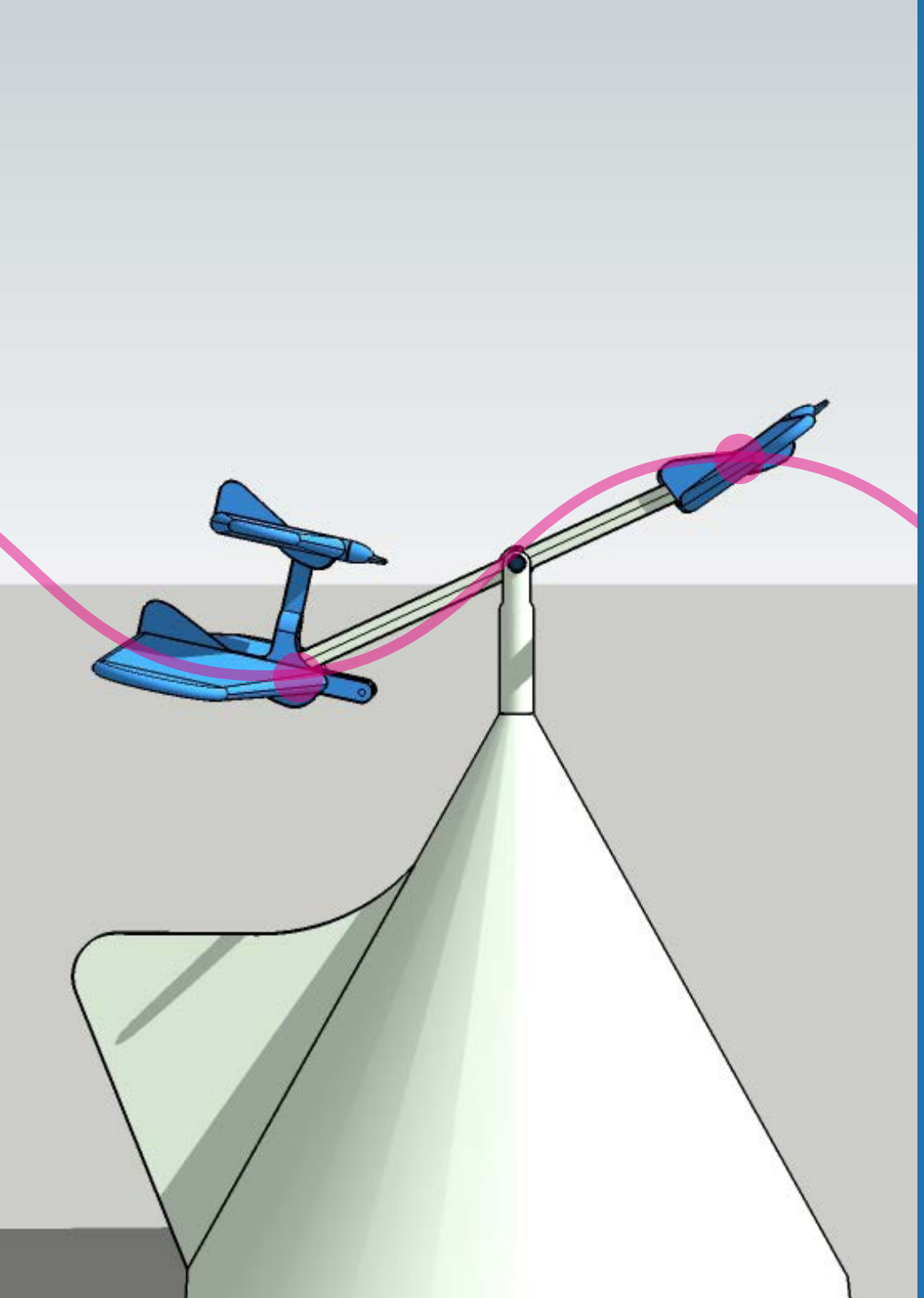
The oscillating wing sits on the second oscillator, a “swinging arm”, which is, as well, sitting on bearings and held by springs.

Thus, the “self-frequency of the arm-oscillator” is defined by the spring-stiffness holding them and the weight of the arm and the wing together.



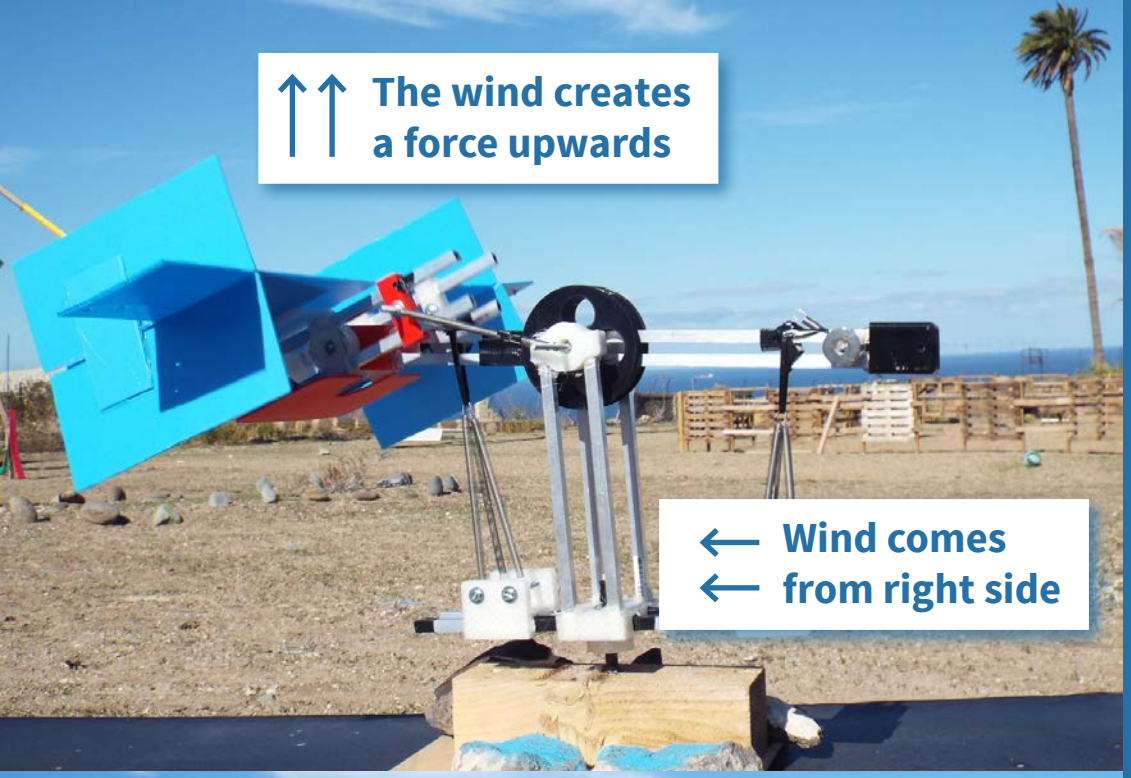
The wing itself is sitting on the bearing the way, that the center of it’s weight is not exactly over the bearing, but shifted. It forms, thus, an ex-center lever that brings energy from the arm-oscillator into the wing-oscillator.

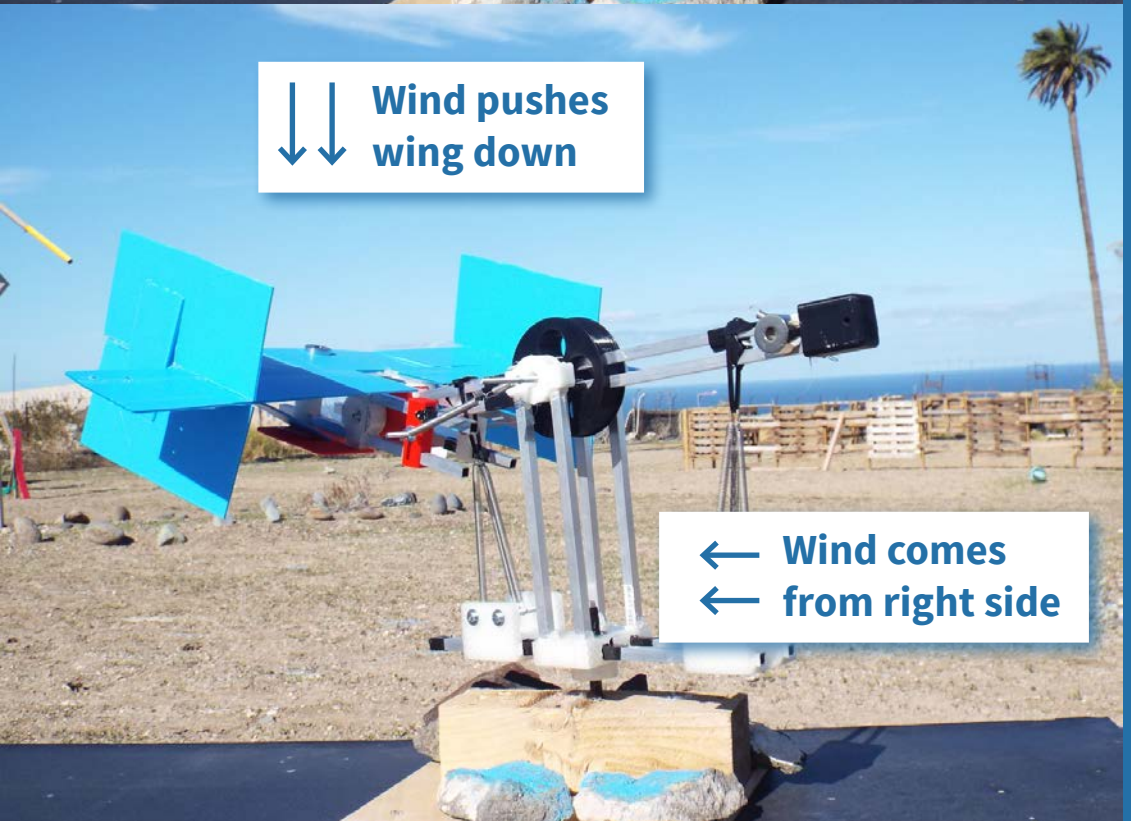
Thus, when the arm swings, it swings up wing.



Now, the important thing is, to make the self-frequency of the swinging wing **equal** the self frequency of the swinging arm. That is, to synchronize the self-frequencies of the two oscillators.

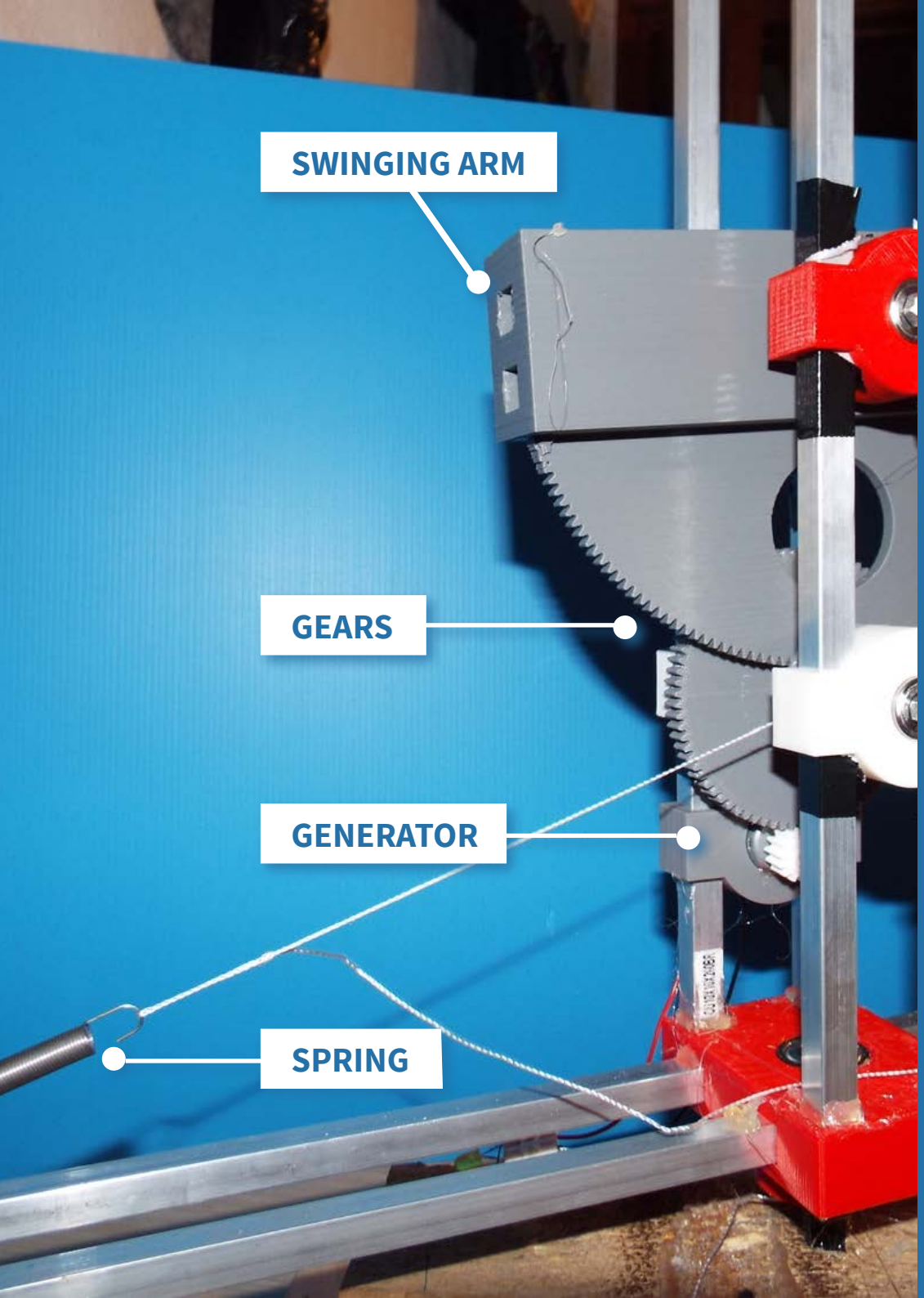
The result is a harvester that takes energy from the wind and thus oscillates with a raising amplitude.





According to the angle of the wing against the air-flow, the kinetic energy of the wind molecules create a force on the wing that pushes it up or down and this way swings the arm-oscillator.

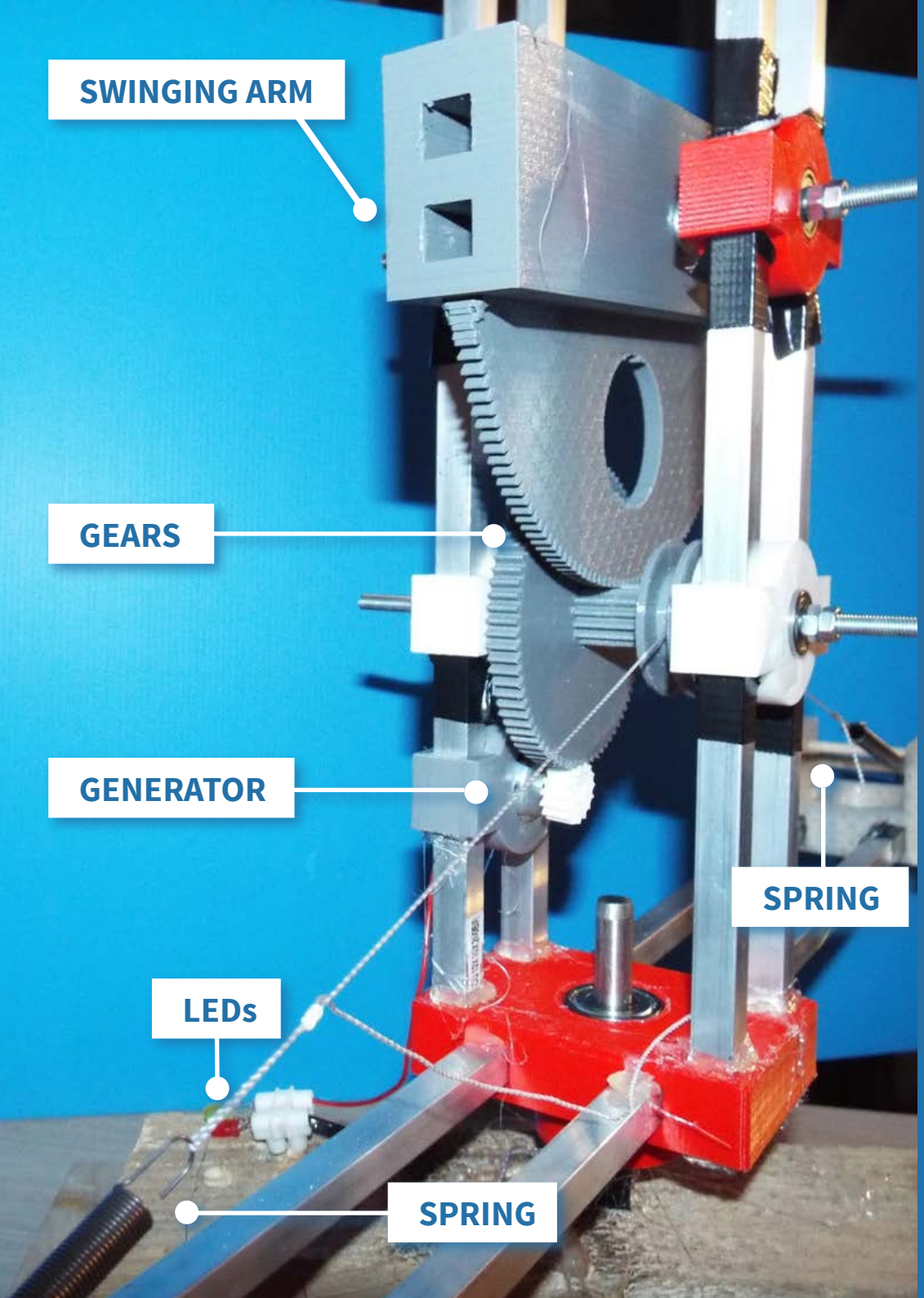
And the ex-center lever swings up the wing in return. This way the wind swings the complete harvester in a steady frequency with the amplitudes reflecting the amount of energy in the machine.



The next step is to take the energy out of the swinging elements by converting it to electric energy (that is pumping of electrons) or pumping gas or liquids.

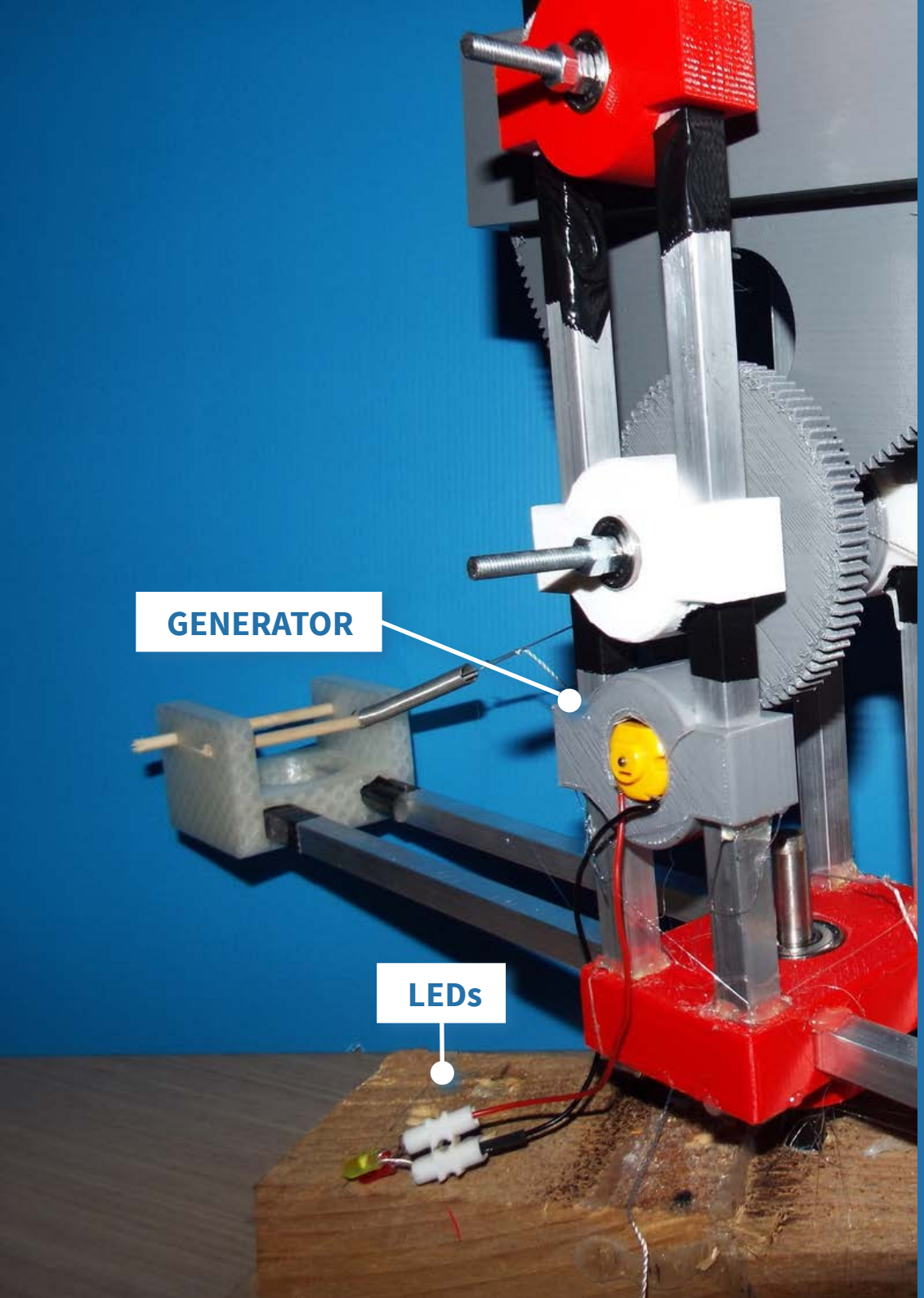
In our model, this is achieved by turning a small electro motor used as generator.

For better understanding, we took the arms and wings away, just the central part is shown. In this model the springs are turning the gear back and forth and thus swing the arm and the generator’s rotation.



The rotation-energy of the generator (rotating inertia) is kept “inside” the system, as the generator swings back and forth, but the electric energy created by the rotation of the magnetic fields inside the generator forms our energy-outlet.

Here, two LEDs are used to show that electric energy is produced when the arm swings.



In the final application, an electronic controller needs just to extract the “surplus” energy the wind “blows into the harvester” and keep a “working amplitude” that equals the optimum efficiency of the harvester.

You can support the rise of the Enebird clean technology by buying our company's shares.

As investor, you will get the newsletter for investors to keep you updated on any important topic for shareholders.

Early investors will help most and will profit most!

BECOME INVESTOR

Please join our forum in case that you are interested in building such a device or have any questions what so ever.

We're take a one-time-fee to keep the forum just for those who are really interested in this tech and honor our work.

Investors get free access to the forum.

If you do not want to become investor yet, nor access my forum, you can register for the guest newsletter to stay up-to-date about the Enebird technology!

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