

3D Calls: make them out of the screen

What ?

To explain it in a simple way, the idea is to transform 2-dimensional images like we have on computers into 3-dimensional shapes.

How ?

I use electromagnets arranged in a grid, which levitate permanent magnets.

Each electromagnet is managed by a microcontroller which is itself controlled by an Arduino card connected to my computer and my script.

They are like television pixels in the sense that increasing the number of electromagnets increases the resolution.

The electricity flowing through the solenoids will create a proportional magnetic field, directed upwards, and opposing the magnetic field of the ferromagnetic magnet, which will create levitation.

Why ?

The final goal of my project is to be able to show any form in 3D, and in an interactive way.

We will be able to observe all the forms that exist, from mountainous reliefs to faces, passing through organs and cells.