PCB for Designers
2023

Fern TAP

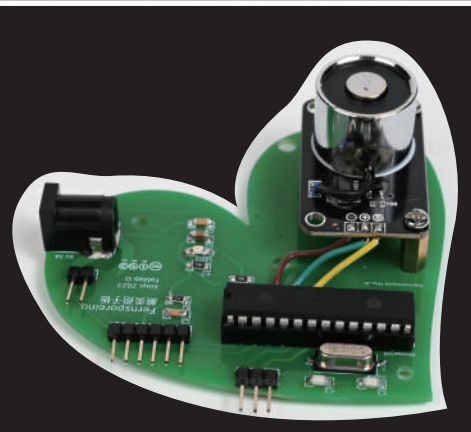
Made by Xinyi

"Sensing ecology": Electronic Circuits and Programming from Designers to Citizens

Design Description

This interactive installation, inspired by the natural spore reproduction and growth system found in ferns, enables urban denizens, who have been distanced from nature to reconnect with nature by simulating the process of natural reproduction.

The design involves a central PCB board within the frame, featuring an electromagnet connected to spores. Participants interact by tapping the fern, causing the electromagnet to release the spores through a vibration sensor signal. The spores, composed of Nitinol and 3D printed parts, These spores descend into the interconnected circuitry, undergoing a thermal process that facilitates the restoration of their permanent configuration.This amalgamation of technology and natural processes provides an avenue for urban inhabitants to reconnect with the elemental cycles of reproduction, thereby fostering a renewed appreciation for the symbiotic relationship between technology and the natural world.



Fernsporeino

Spore