

# Electronics

## Electronic Origami

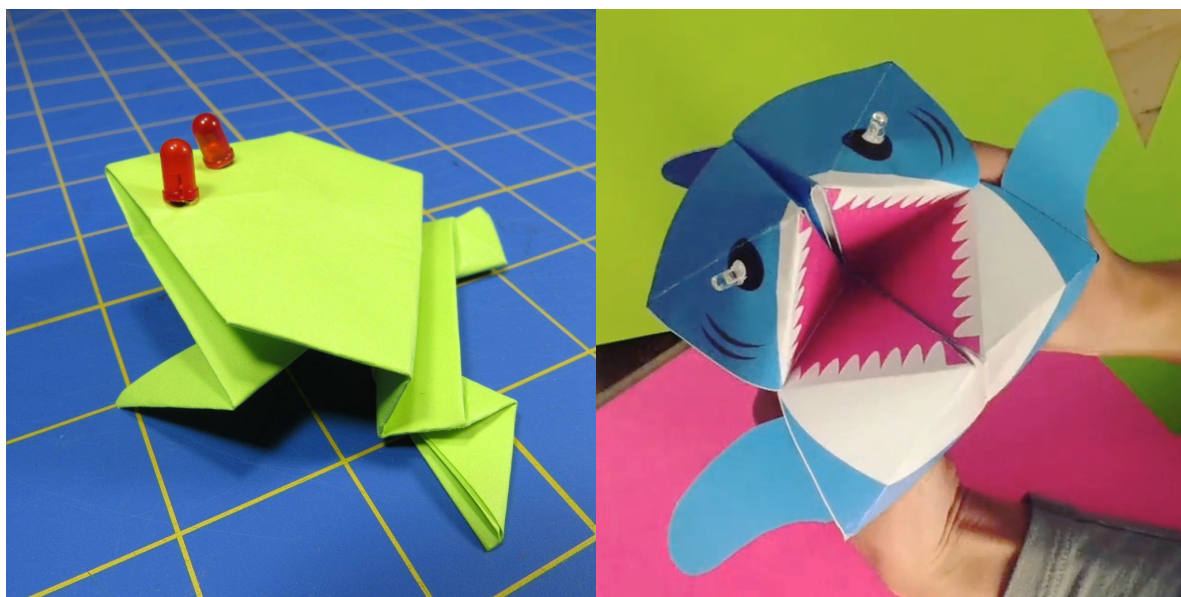
**Subtopic: Origami in Space Engineering / Electronic Circuits**

**5 - 14 years**

**Duration: 90 minutes.**

**Number of participants: approx. 5 per monitor.**

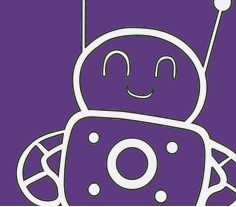
**Approximate cost: without estimate.**



### Goal

Being an ancient technique, it is surprising how origami or origami is still more alive than ever in areas such as special engineering and robotics, for example, in the mechanics of deploying probes and satellites. In this workshop we will learn about electrical circuits by making fun origami figures: using LEDs, paper, scissors and a bit of imagination, we can create wonderful creatures to take home! Learn about polarity, current, resistance and short circuits in a different and fun way.

<http://steam.soko.tech/>



## **Contents**

**1** Introduction to the ancient technique of origami and origami and examples of its use in current applications such as robotics and space engineering.

**2** Introduction to electrical circuits.

## **Presentation**

[https://drive.google.com/open?id=1gBkJF3MRh74IMYKC\\_RPHDv9wzRoiDQdkUS4B-8Mma9w](https://drive.google.com/open?id=1gBkJF3MRh74IMYKC_RPHDv9wzRoiDQdkUS4B-8Mma9w)

## **Materials**

- Origami paper or glossy paper of 150-170 grams
- LED bulbs
- Conductive copper tape
- Plain clear tape
- 3V button cell batteries
- Scissors

## **Assembly instructions**

<https://drive.google.com/open?id=1AR4lCHFWKGfN2aJxhqTaOFLFAWOdbB23>

## **Cut files**

[https://drive.google.com/open?id=1IB41XzJMR95hj-V\\_dPzNgPXxg-uCRk7C](https://drive.google.com/open?id=1IB41XzJMR95hj-V_dPzNgPXxg-uCRk7C)

## **Support material**

<https://makezine.com/projects/fold-up-jumping-origami-frog-led-eyes/>