**Bio-lamp**

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# Introduction

**The bio-lamp**

The bio-lamp is a device that can be used to describe the ‘feelings’ of a plant. Experiments shows that a plant creates two types of signals. The first is a slow changing wave that is a small and faster signal. The second is a faster signal that depends on the frequency.

This device can check these signals and makes two RGB-LED active. These LEDs can have different colours because the signals can change. There is something weird about this project because you need to hurt the plant if you want to check the feelings of the plant. If you want to check those signals you need to insert two needles in the soil of the plant.

# Material and methods

The materials that were used in this project are resistors, capacitors, semiconductors, some others components like RGB-LEDs, print terminal block’s and some others small components.

Some resistors and capacitors were hard to find because the size and value. The kind that was used in this project are SMD components (Surface-Mounted Device).

In this project there are many resistors that are being used. The value of the resistors are small (0 Ohm) but there are also resistors that are very big (15 MOhm). This shows how divergent the values can be.

The resistor of 0 Ohm is not in the Bill of Materials because that is technically a short circuit. This resistor can be replaced with a wire.

The capacitors are smaller of value. The values are between 100 nF and 10 µF.

Some components are different from size because some components weren’t available.

|  |  |  |  |
| --- | --- | --- | --- |
| Component | Amount | Total price | Delivery date |
| Resistor SMD 0805 10 Ohm | 1 | € 0,17 | 29/03/2021 |
| Resistor SMD 1206 220 Ohm | 6 | € 0,17 | 29/03/2021 |
| Resistor SMD 0805 10 kOhm | 7 | € 0,17 | 29/03/2021 |
| Resistor SMD 1206 15 kOhm | 2 | € 0,17 | 29/03/2021 |
| Resistor SMD 1206 330 kOhm | 1 | € 0,17 | 29/03/2021 |
| Resistor SMD 1206 470 kOhm | 7 | € 0,17 | 29/03/2021 |
| Resistor SMD 0805 15 MOhm | 1 | € 0,12 | 05/04/2021 |
| Capacitor SMD 0805 100 nF | 5 | € 1,00 | 29/03/2021 |
| Capacitor SMD 1206 150 nF | 1 | € 1,00 | 29/03/2021 |
| Capacitor SMD 1206 1 µF | 2 | € 0,89 | 29/03/2021 |
| Capacitor SMD 1210 3,3 µF | 1 | € 0,44 | 01/04/2021 |
| Capacitor SMD 1210 10 µF | 1 | € 033 | 01/04/2021 |
| Amplifier MCP6004-E/SL | 1 | € 0,41 | 05/04/2021 |
| Opamp ‎TLC271ACDR | 1 | € 0,79 | 25/05/2021 |
| Microchip pic16f15325-i/sl | 1 | € 0,78 | 05/04/2021 |
| Semiconductor cat5171tbi-50gt3 | 1 | € 0,75 | 05/04/2021 |
| P-Mosfet BSS84P | 6 | € 1,68 | 05/04/2021 |
| 2-way print terminal block, pin distance 2,54 mm | 2 | € 2,74 | 25/05/2021 |
| 6-pin pinheader, pin distance 2.54 mm | 1 | € 0,81 | 29/03/2021 |
| Battery holder SBH431-1AS‎ | 1 | € 2,68 | 25/05/2021 |

Bill of Materials

The information that was needed came from Elektor. In this magazine is all the information about the PCB design but also about the project it self. How the project works and what components are needed to make the design.

## Programming the device

This project uses a micro-controller (PIC). This micro-controller wilt decide what this project does. It is programmed this way that it can sense (measure) electrical fields. A PIC-programmer is used to program the micro-controller. It can be programmed after the PIC is installed on the board. The code for this device was on the site from elektor.

## The steps to make this project?

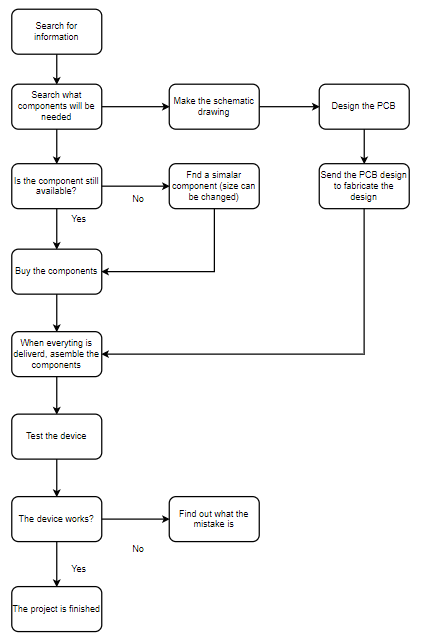


Figure 1 steps project

The PCB design can be made with a cover. This cover can be designed by using AutoCAD. The cover can be created by using a 3D-printer when the design is finished. The PCB design and the cover can be forged together and see if it fits. This time there will not be a case. The design will be made but the 3D-design will not be created.

The program that is used to design the PCB is Altium.

These are the steps to create a design. A design can be made by creating a new project. A new schematics and PCB prints design has to be created in this project.

In the file menu, you can select New where you can find the schematic that is necessary to add to the project (schematic, PCB, …).

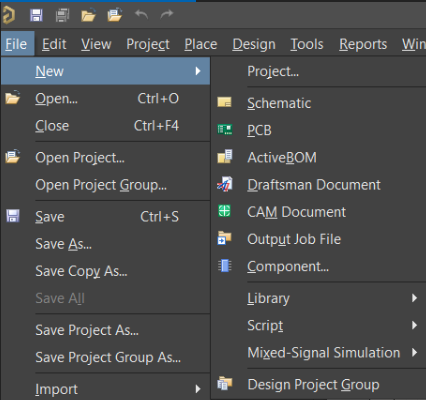


Figure 2 Altium add to project

When the schematic is created, the design can be opened and start placing components and connecting the components to each other with wires. But the components are needed to be available in Altium. Search the components in the Manufacturer Part Search.

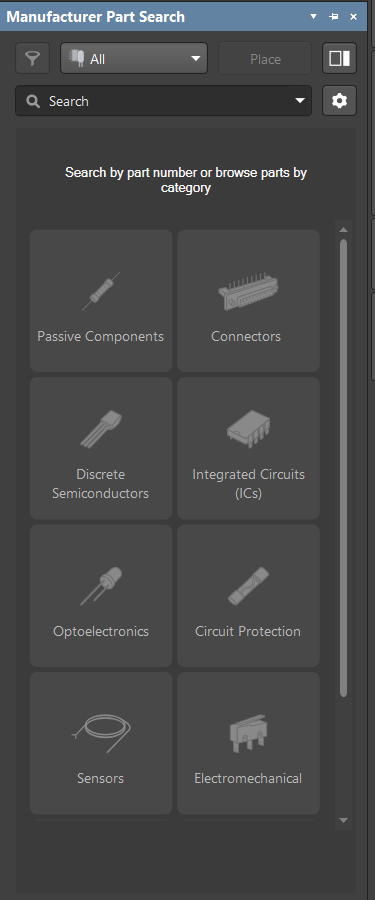


Figure 3 Manufacturer Part search

The project needs to be validated when the schematic is drawn. This is available in the project menu 🡪 Validate PCB project. This function checks if the design that is created have errors. There can be no errors in the project.

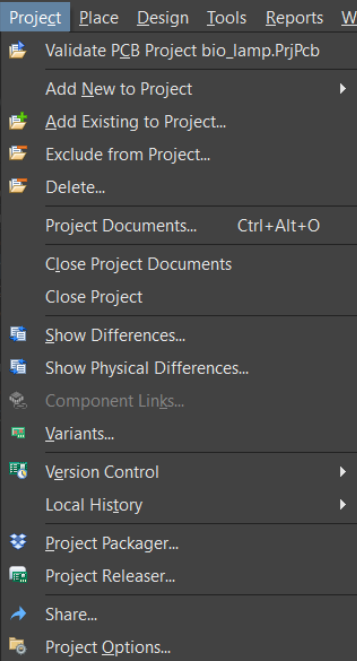


Figure 4 Validate project

The print can be made and the placing of the components can begin on the PCB.

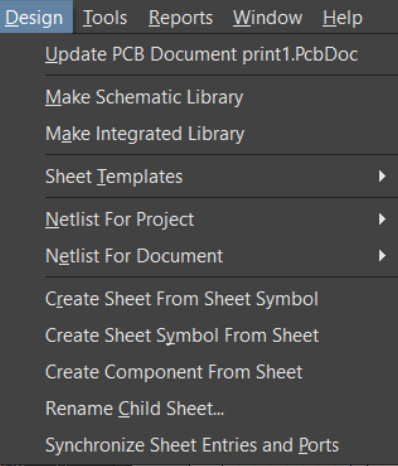


Figure 5 Update PCB

The print is made and the component can be placed.

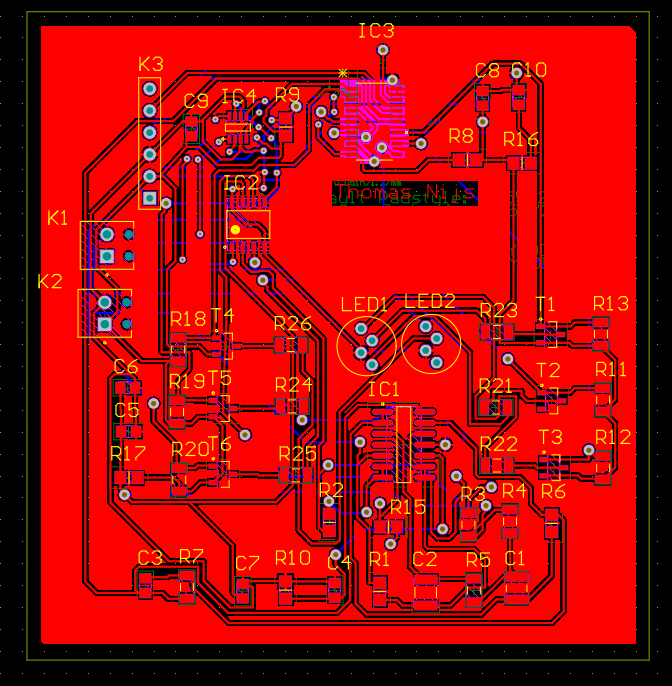


Figure 6 design print

The Output Job Files has to be created.

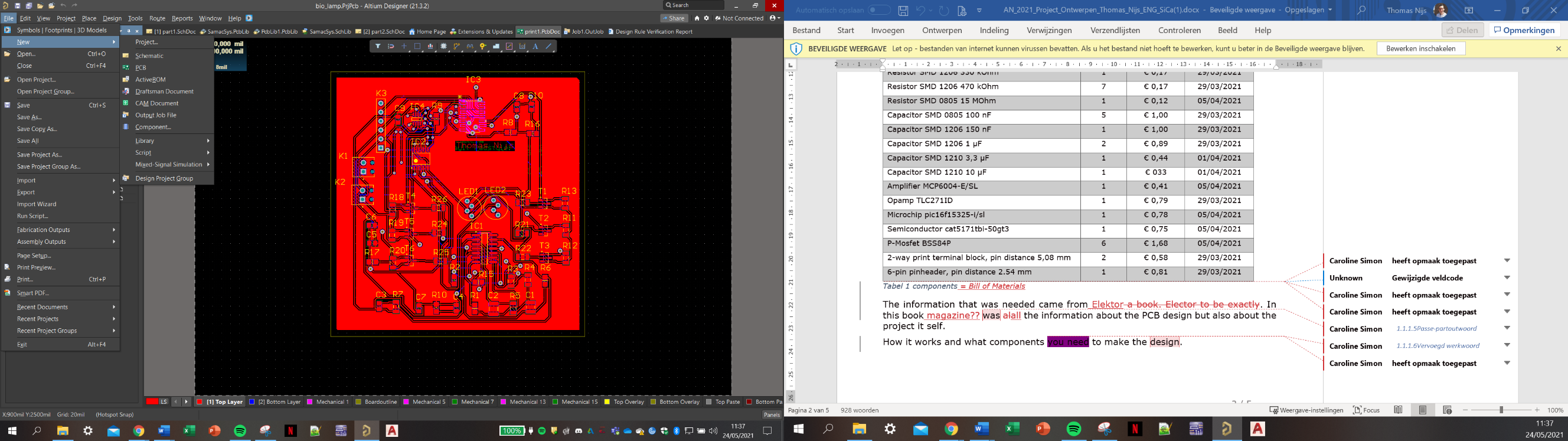


Figure 7 output job file

Gerber files and NC drill files are linked and ready to create the files.

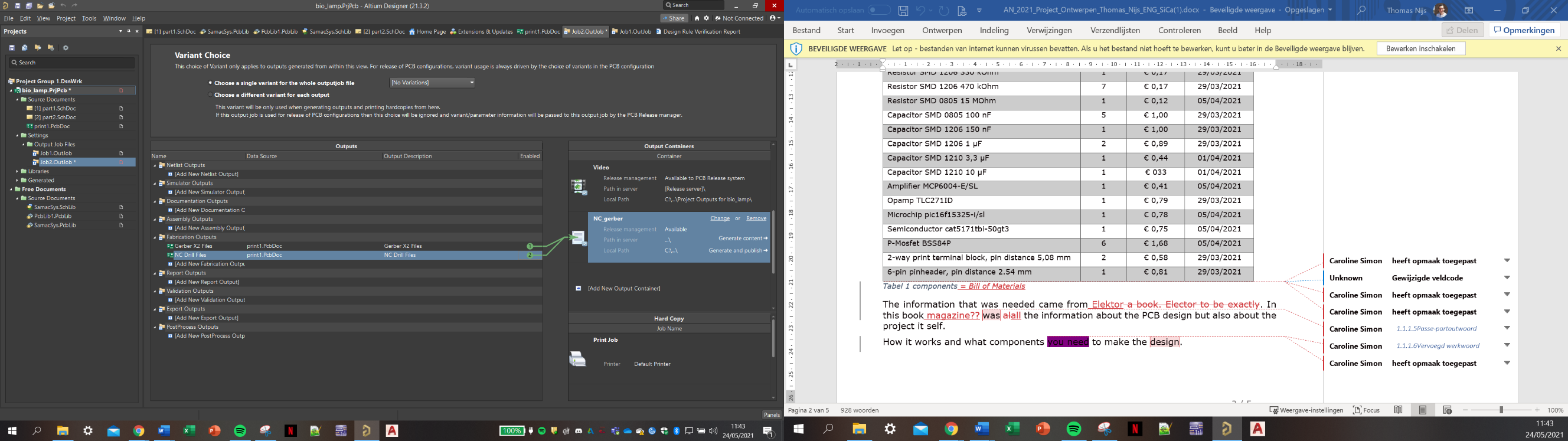


Figure 8 output job file connecting

The files are created and this design is ready to go to the PCB maker.

# Results

## Project

### Components

There are many components in this project. The micro-controllers is the most important component. The PIC micro-controller is used to measure the electrical fields and transfers this data into two LEDs.

The MCP6004-E/SL and the TLC271 are amplifiers. These make sure that if there are electrical fields you can measure them and enhance them witch makes it better to see.

The CAT5171TBI-50GT3 is a digital potentiometer. This one will also take care for the offset-compensation.

And of course there are resistors and capacitors. There is one very big resistor. This resistor is R1. This has a value of 15 MOhm. This is because we need to see as many signals as possible from the plant and this value makes sure that we see many signals.

### How does it work?

The signals can be measured with two needles. The signals are amplified by the opamps. These make sure that the signals that are measured are big enough. This signal will 1500 times be amplified. The signal is now big enough to convert to colours. There are two LEDs on the print. These LEDs are going to flash first when they have power.

The LEDs are not normal LEDs. These are RGB LEDs. This means that they can have different colours (pigment from blue, red and green 🡪 combined different colours). The LEDs will flash in different colours and after a couple seconds the LEDs will flash bright white. The power supply are three AAA batteries.

## Designs

### Electrical schematic

This design will be made in Altium. All of the components are connected and there are no errors. The design is in two pieces (part1 and part2). Part 1 contains the LEDs and the PIC (micro-controller) and the CAT5171TBI-50GT3 (digital potentiometer).

Part 2 contains the MCP6004-E/SL and TLC271 (both amplifiers) and the power supply.

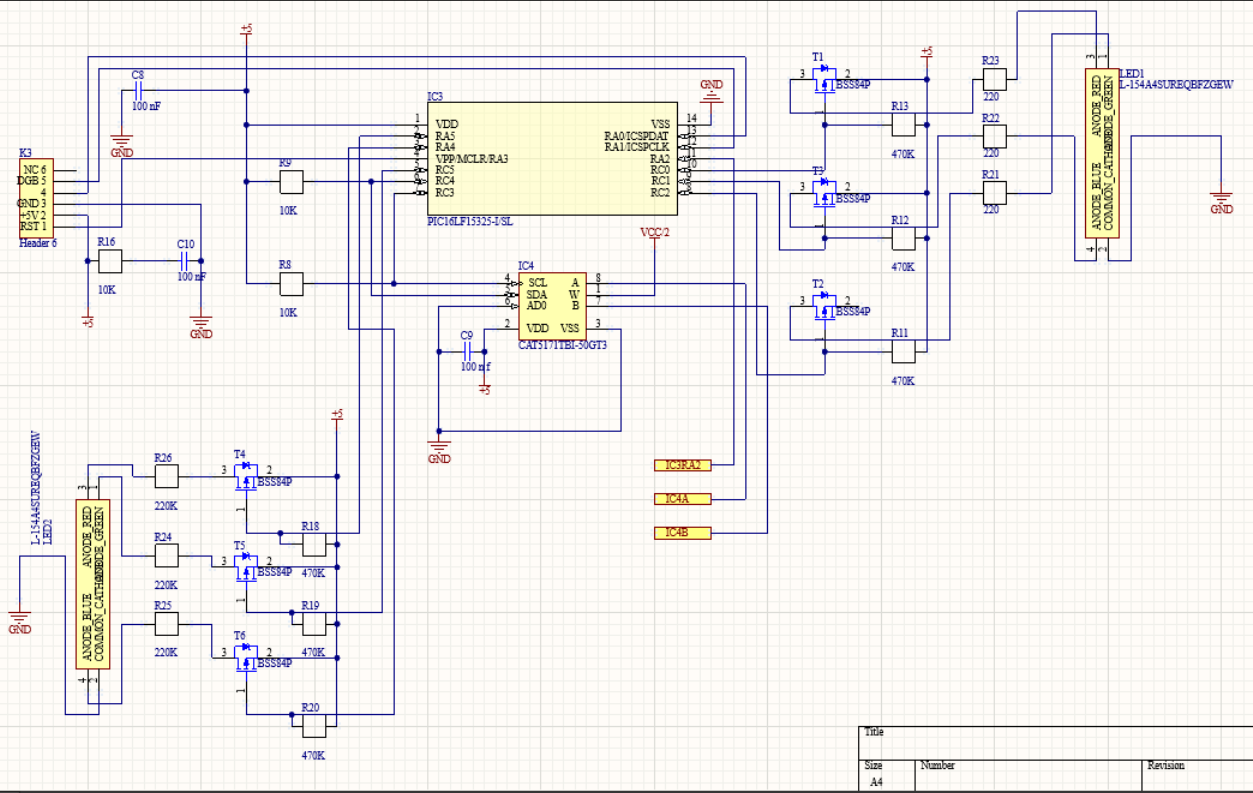


Figure 9 part1

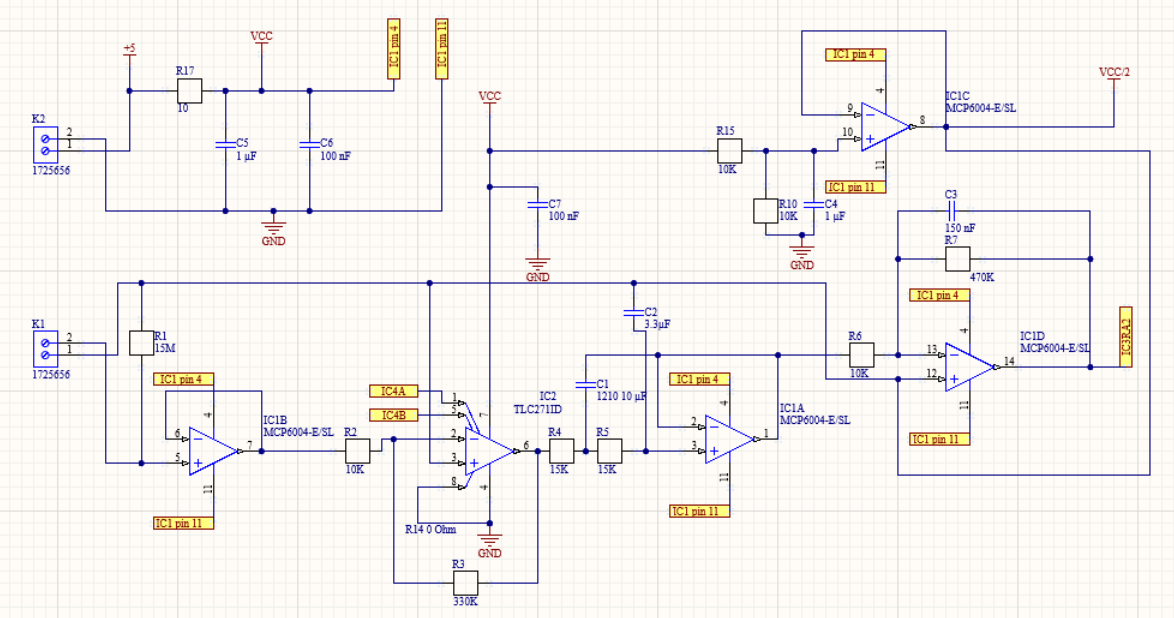


Figure 10 part2

### PCB design

The PCB design is the print. All of the components are present and there is also a polygon. A polygon is a layer in the PCB that can be connected to a net (ground or + 5V etc.). One of the layers is also the text on the print. The text is for information to now where the components need to be. It is also possible to type no matter what on the print (name or class etc.).

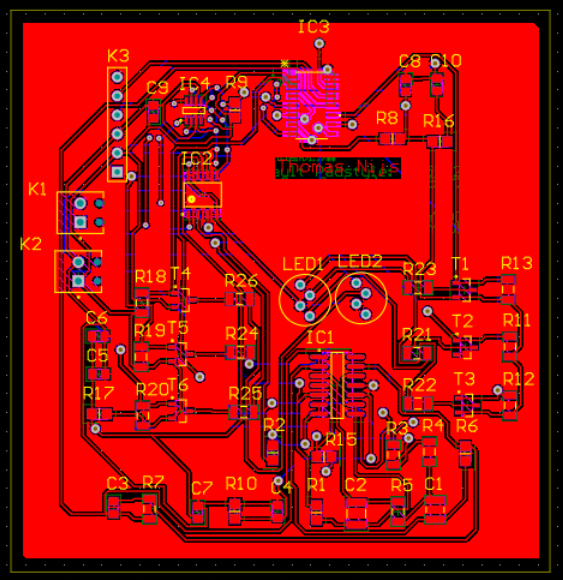


Figure 11 PCB design

### Mechanical design

The mechanical design is in the shape a ball in two. There is a hole in the top because there are two LEDs that needs to be seen. There are attachment points where the PCB can be assembled using screws to the design. This design will be printed but there are also pieces that are made from plexiglass.

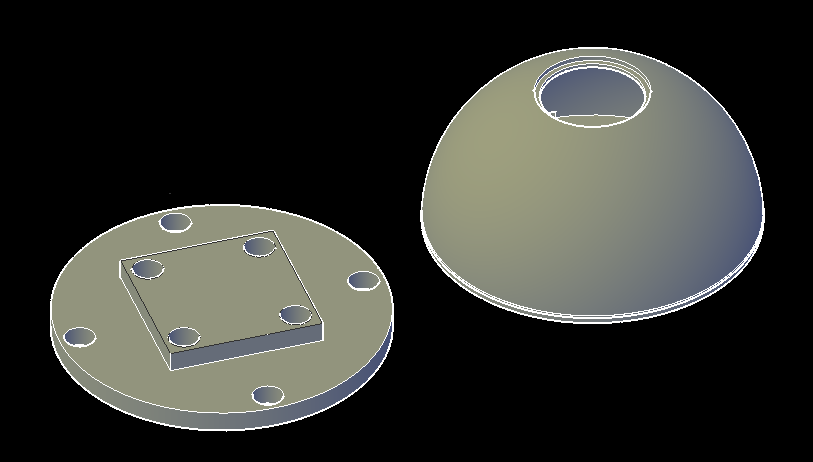


Figure 12 top design

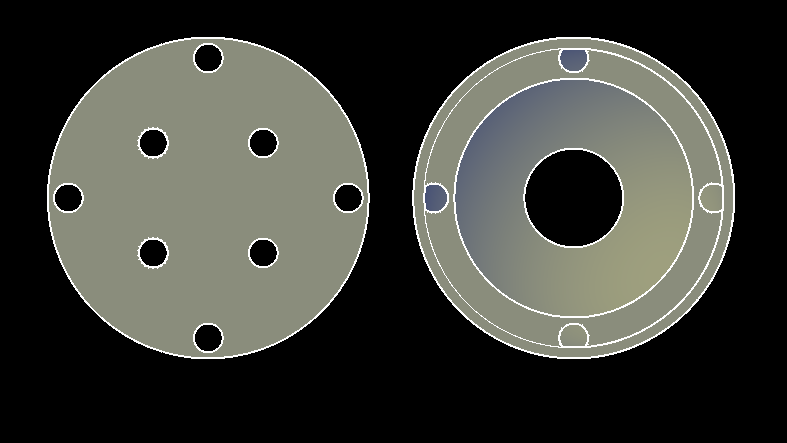


Figure 13 bottom design

### Logo

This logo is about this project. It represents a artistic flower with roots. It is created this way because it fits with the device. This device is like a flower but it had a little evolution.

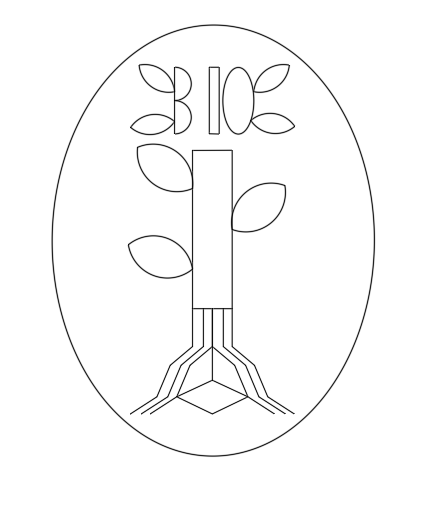


Figure 14 logo

### Finalised product

The finalised product is complete. There is a problem with the PCB. The design is made but it can not run. The PCB stays like it is now but it can be inserted in a case. But this case will not be build.

**![Afbeelding met tekst, elektronica, circuit

Automatisch gegenereerde beschrijving](data:image/jpeg;base64,/9j/4AAQSkZJRgABAQEAYABgAAD/4U0gRXhpZgAATU0AKgAAAAgABgALAAIAAAAmAAAIYgESAAMAAAABAAEAAAExAAIAAAAmAAAIiAEyAAIAAAAUAAAIrodpAAQAAAABAAAIwuocAAcAAAgMAAAAVgAAEUYc6gAAAAgAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAFdpbmRvd3MgUGhvdG8gRWRpdG9yIDEwLjAuMTAwMTEuMTYzODQAV2luZG93cyBQaG90byBFZGl0b3IgMTAuMC4xMDAxMS4xNjM4NAAyMDIxOjA1OjI1IDE1OjIwOjA1AAAGkAMAAgAAABQAABEckAQAAgAAABQAABEwkpEAAgAAAAMyMQAAkpIAAgAAAAMyMQAAoAEAAwAAAAEAAQAA6hwABwAACAwAAAkQAAAAABzqAAAACAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA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Figure 15 finalised product

# Discussion

There were a few issues that needed to be fixed. Some of the issues were with the components. Some of the components were to small and the availability was a little bit difficult. But it was easy to solve because the store gave some other sized with the same value from resistor or capacitor.

Some of the problems were in the designing stage. Sometimes it was not possible to find a component on Altium. The component was in Altium but you couldn’t place the component. This was fixed by going on the internet and finding the component and downloading the ECAD-models.

There was one problem with a component. This component was the LED. There was a version in Altium but it was a simulation version. The solution was to download a program. In this program it was possible to find components and to insert them directly into Altium.

The PCB design took a little while for arriving because the shipment was from thirteen people and the price was very high. It took a while because some of the designs had some errors so they needed to be fixed first.

When the PCB went in the oven, there was a problem with one resistor. This resistor came loose and needed to be soldered again.

There was a problem with some of the components because Altium was different from size with a couple components. This was fixed by ordering new components. But the PCB went already in the oven so there was one micro-chip that wasn’t soldered. This was fixed by soldering the component by hand after the component was arrived.

There is a problem. When I measure between my input from my device for a shirt-circuit, the machine goes of and that is a bad sign. I didn’t saw the mistake that made the short-circuit so it doesn’t run.

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