**RGB Digit Clock**

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# Introduction

[Describe your project:

* What did you build?
* What are the main characteristics of the device?
* What does it do?
* What is the reason you chose to build this device?
* What is your starting point? Are there any (scientifically-) related articles you used?
* Give an overview of the different topics you discuss in the Application Note.

Mind your writing style: do not write: “I had to do this for the course ‘Project Design.’ Instead use objective and informative sentences using the correct tense (Simple Present). Never use subjective expressions nor personal pronouns (I, we, you). Do not address the reader. Focus on the research: describe the situation and the process.

**+/- 100 words**]

This project is about RGB Digit Clock which means the clock can change into many colors. If we connect a BME280 break-out board (BoB) then it is possible for this circuit to also display temperature, humidity, or air pressure very well. It is an interesting piece of equipment that has many useful functions, it is definitely worth taking a deeper look at it. In the course of this project, the following auxiliary materials were used as a starting point: Elektor magazine.

The content of the application note has the methods used for the project, the Information about the materials and it also includes the result.

# Material and methods

[Give an overview of the materials and the methods you used:

Materials: the components for the device

* Which materials (i.e. hardware and software) did you use and did you compare?
* Which materials were not useful and why not? Use proper, objective evaluation criteria.
* Add the Bill of Materials including an indication of the price, supplier name and delivery date (table in English!)

Methods: specific tools and procedures you use to collect and analyze data (for example, experiments, datasheets…)

* Include a schematic representation (i.e. flowdiagram) and explain this representation by providing a step by step overview of the design process, production process and testing process (including a description of the mechanical design).

**+/- 500 words**]

# Results

[Describe the end result you accomplished.

* Describe every aspect of your device. How does it function?
* Add an image of the electrical schematic, PCB design, finalized mechanical design, and finalized product

Write a well-structured text using subtitles and paragraphs.

**+/-500**]

## Subtitle 1

### Subtitle

### Subtitle

## Subtitle 2

### Subtitle

### Subtitle

# Discussion

[Reflect on and discuss your project.

* Which difficulties did you encounter during the design process and why? How did you solve these issues?
* Reflect on the process: did things go as expected? Would you choose the same approach if you had to do the project all over again? Are there issues that still need to be fixed? How come?

**+/-300 words**]

# Reference list

[Insert your reference list here.]