

# Hardware Creation

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# Basic Tutorials

Below are some links to some basic tutorials to get started with Arduino.

[Arduino - LED - Blink | Arduino Tutorial \(arduinogetstarted.com\)](#)

[Arduino - Button | Arduino Tutorial \(arduinogetstarted.com\)](#)

[Arduino - Button | Arduino Tutorial \(arduinogetstarted.com\)](#)

[Arduino - RGB LED | Arduino Tutorial \(arduinogetstarted.com\)](#)

# Resistors

This page will tell you everything you need to know about resistors.

A resistor is an electrical component used to create resistance in the flow of an electrical current. The amount of resistance a resistor has is measured in ohms. Resistors are important as supply too much voltage to a component you can completely destroy it. Resistors can be used to prevent this with just a little bit of math.

To make calculations easier, I have linked 2 tools to help you calculate exactly what you need and what you have.

<https://ohmslawcalculator.com/ohms-law-calculator>

<https://www.digikey.com/en/resources/conversion-calculators/conversion-calculator-resistor-color-code>