

ARDUINO UNO

The Arduino Uno is an open-source microcontroller board based on the Microchip ATmega328P microcontroller and developed by Arduino.cc. The board is equipped with sets of digital and analog input/output pins that may be interfaced to various expansion boards and other circuits. [Wikipedia](#)

NEOPIXEL RING 12

12 ultra bright smart LED **NeoPixels** are arranged in a circle with 1.75" (44.5mm) outer diameter. The **rings** are 'chainable' - connect the output pin of one to the input pin of another. ... Each LED is addressable as the driver chip is inside the LED.



ULTRASONIC SENSOR

Ultrasonic transducers and ultrasonic sensors are devices that generate or sense ultrasound energy. They can be divided into three broad categories: transmitters, receivers and transceivers. [Wikipedia](#)

BREADBOARD

A breadboard, or protoboard, is a construction base for prototyping of electronics. Originally the word referred to a literal bread board, a polished piece of wood used for slicing bread. In the 1970s the solderless breadboard became available and nowadays the term "breadboard" is commonly used to refer to these. [Wikipedia](#)

PIEZO BUZZER

In simplest terms, a **piezo buzzer** is a type of electronic device that's used to produce a tone, alarm or sound.

What is Arduino IDE used for?

The **Arduino** Integrated Development Environment (**IDE**) is a cross-platform application (for Windows, macOS, Linux) that is written in functions from C and C++. It is **used** to write and upload programs to **Arduino** compatible boards, but also, with the help of third-party cores, other vendor development boards.

