1. **Color Sensor** – This type of sensor can identify the color of an object by the amount of light the object reflects. Color Sensor will detect the intensity of Red, Green and Blue in color of the placed object and send it to microcontroller for further process.
2. **Light Dependent Resistor** - An [LDR](https://kitronik.co.uk/components/switches-and-sensors/light-sensors.html) is a component that has a (variable) resistance that changes with the light intensity that falls upon it. Every color detected creates a different brightness therefore identifying which color the object is.
3. **Microcontroller** - A microcontroller (MCU for microcontroller unit, or UC for μ-controller) is a small computer on a single integrated circuit. The brain of the robot where the programming commands and sensor values are processed.
4. **Servo Motors** - are DC motors that are equipped with a servo mechanism for controlling precise angular position. They usually have a rotation limit ranging from 90° to 180°.
5. **Input ports** – It connects the microcontroller either to internal or external devices. For example, where you plug in the attachments to Dobot those are the input ports.