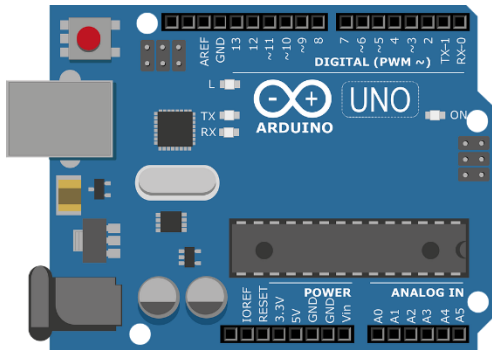


COMPONENTS USED

ARDUINO



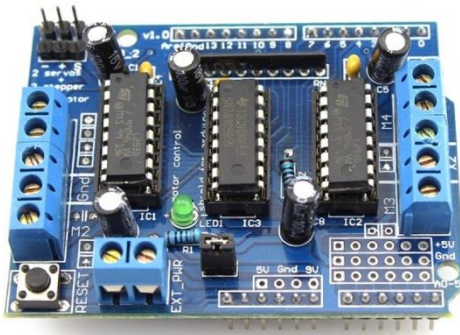
Arduino is an open-source platform used for building electronics projects. Arduino consists of both a physical programmable circuit board (often referred to as a microcontroller) and a piece of software, or IDE (Integrated Development Environment) that runs on your computer, used to write and upload computer code to the physical board.

IR SENSOR



An **infrared sensor** is an electronic device, that emits in order to sense some aspects of the surroundings. The emitter is simply an IR LED (Light Emitting Diode) and the detector is simply an IR photodiode which is sensitive to IR light of the same wavelength as that emitted by the IR LED. When IR light falls on the photodiode, the output voltages, change in proportion to the magnitude of the IR light received.

MOTOR SHIELD AND MOTORS



The **Arduino motor shield** lets you drive two DC motors with your Arduino board, controlling the speed and direction of each one independently.

Motor is a device that converts electrical energy to mechanical energy. The motors used in this project are high torque motors with reduction ratio of 1:48 and near

