

Robotic arm

What's robotic arm?

A robotic arm is a type of mechanical arm, usually programmable, with similar functions to a human arm are connected by joints allowing rotational motion.



Uses of Robotic Arm:

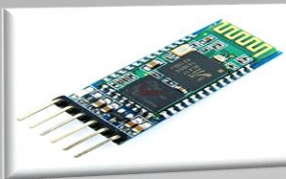
Robotic arms can be used for all manner of industrial production, processing, and manufacturing roles - any task in which extremely precise, fast and repeatable movements are required, in fact.

Idea of project

We make a Robotic Arm to carry things by use a servo motors to make a rotation And use Bluetooth module to control it through application

Components:

- **Bluetooth module hc-05:**



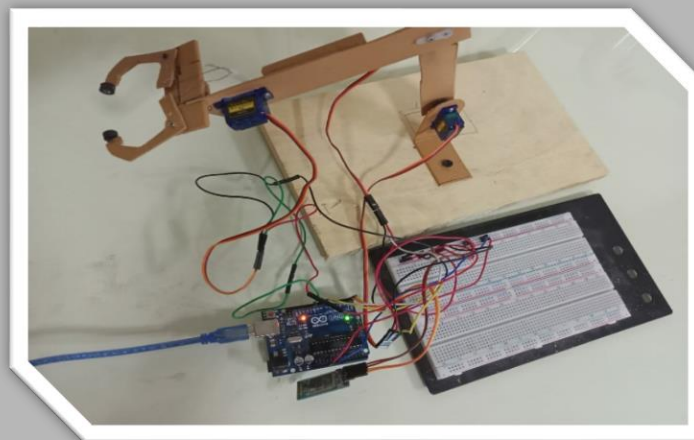
HC-05 Bluetooth Module is an easy to use Bluetooth SPP (Serial Port Protocol) module, designed for transparent wireless serial connection setup. Its communication is via serial communication which makes an easy way to interface with controller or PC.

- **3Servo motor SG 90(1.6 kg.cm):**

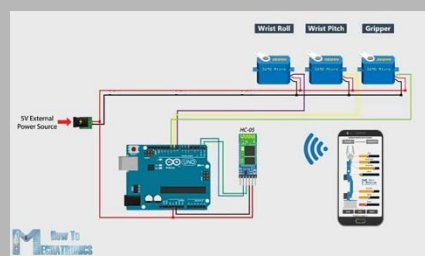


A servo motor is an electromechanical device that produces torque and velocity based on the supplied current and voltage. A servo motor works as part of a closed loop system providing torque and velocity as commanded from a servo controller utilizing a feedback device to close the loop.

Our prototype:



Simulation :



Code

(from this link)

<https://ideone.com/yiHxlp>