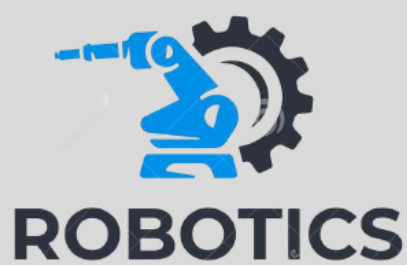


# MECHANICAL CONSTRUCTION KIT

## ARDUINO COMPATIBLE

- Easiest way to learn and develop Mechanical Construction Kit
- Save time in circuit rig-ups
- Plug & Play Motors, drivers & communication modules



### Getting started with Mechanical Construction Kit

- Bluetooth Controlled Pick and Place Robot Mechanism through Smart Phone

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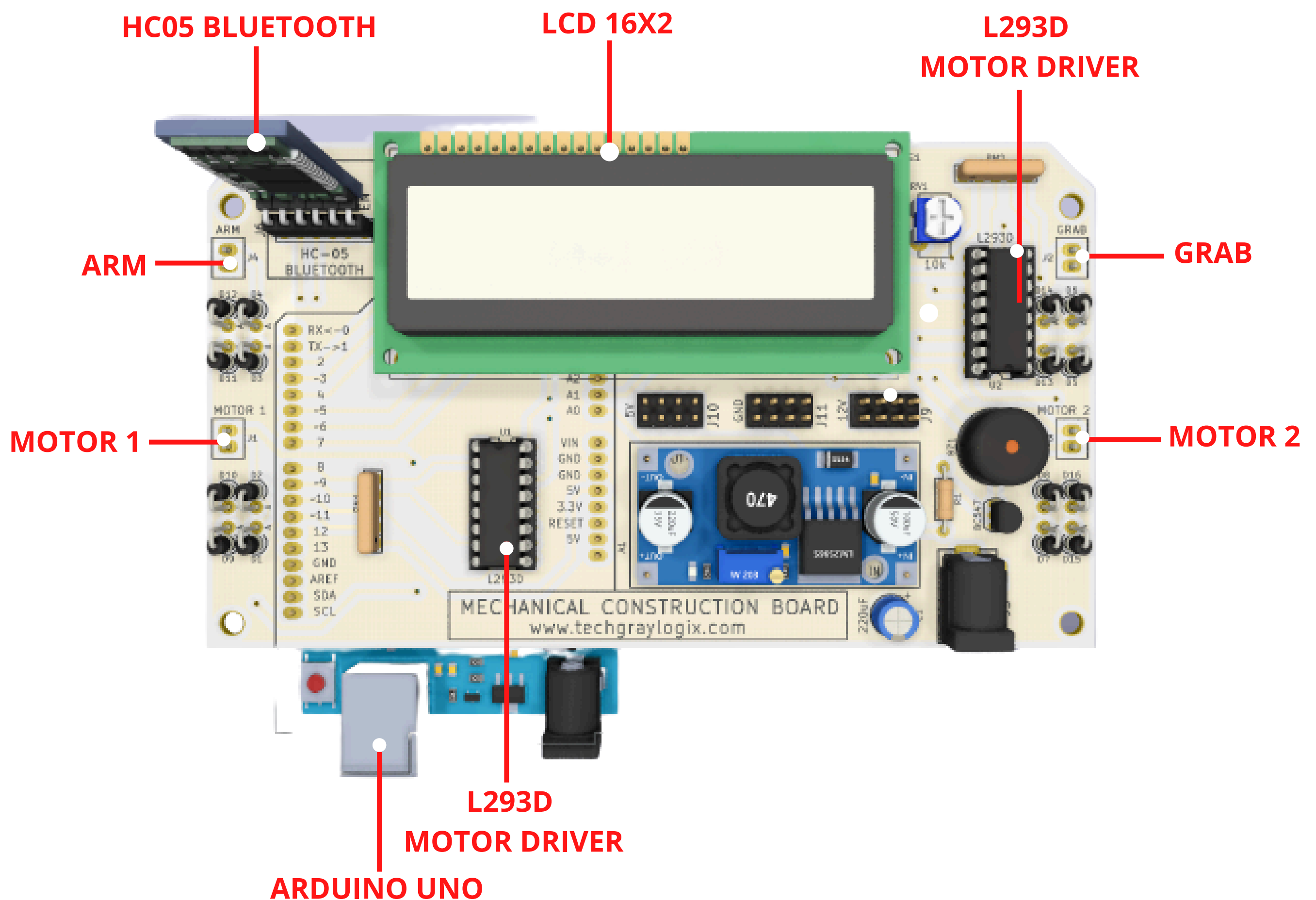
[www.techgraylogix.com](http://www.techgraylogix.com)

The kit includes the necessary hardware, code and guide to build various Embedded applications.

### KIT CONTENTS:

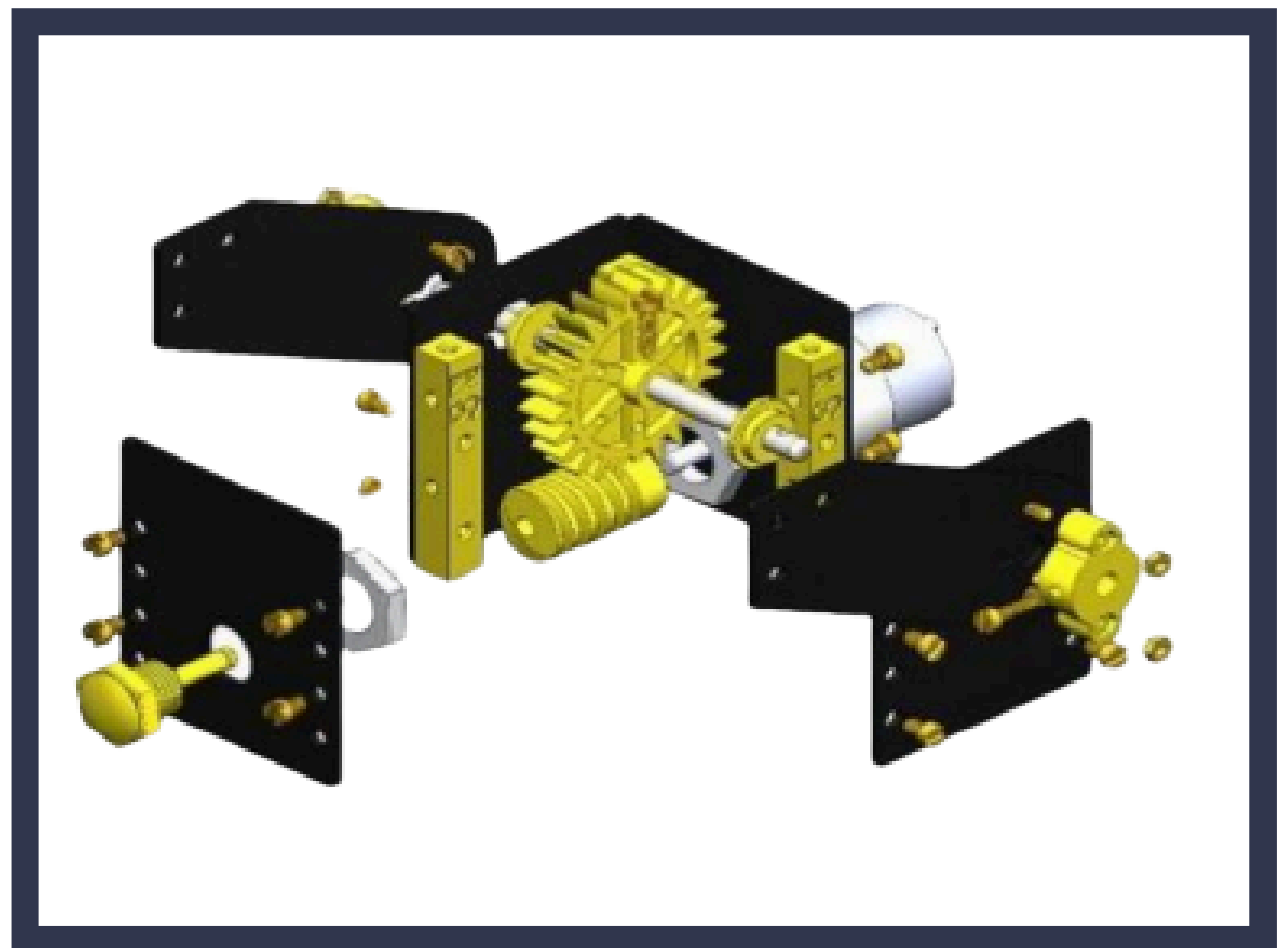
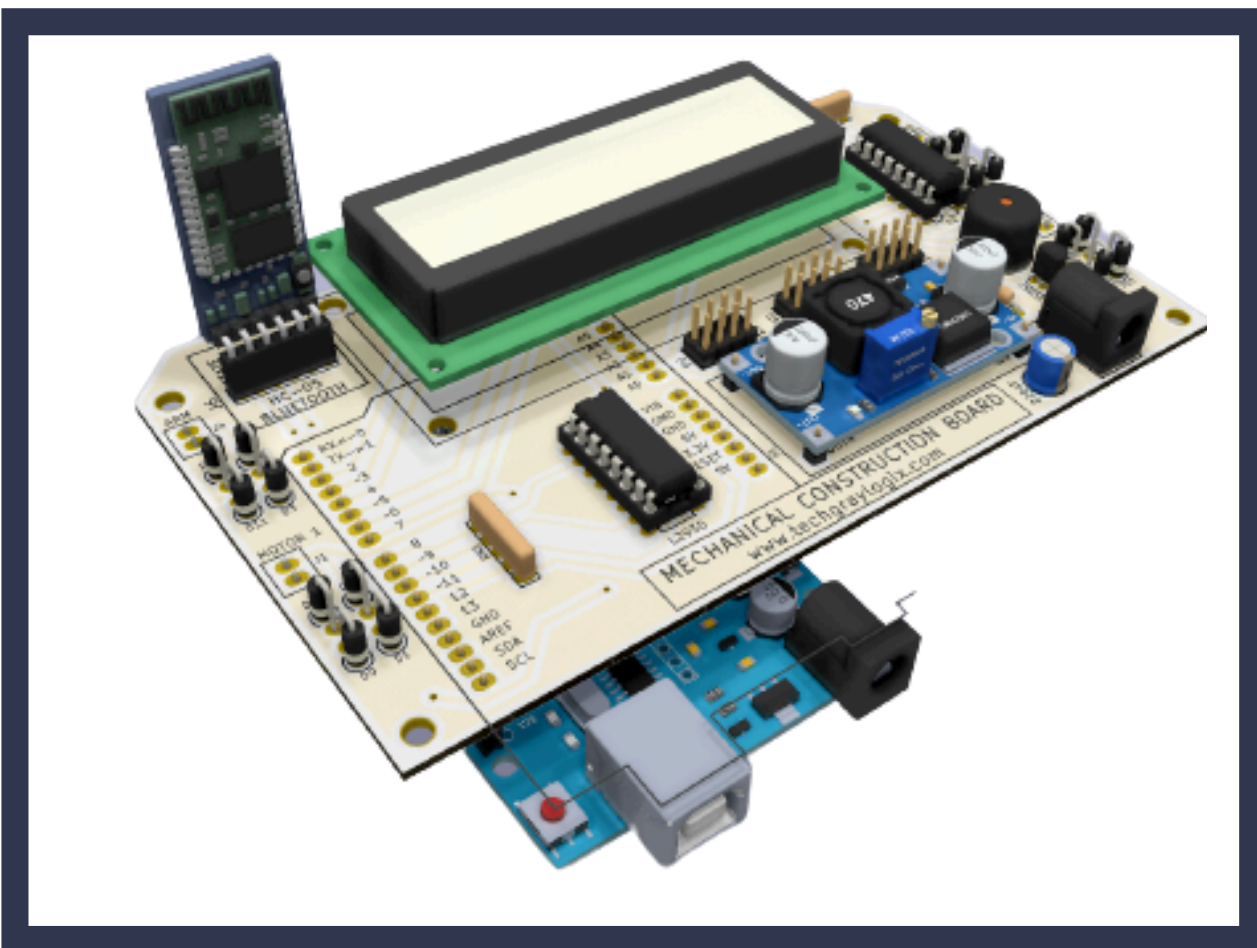
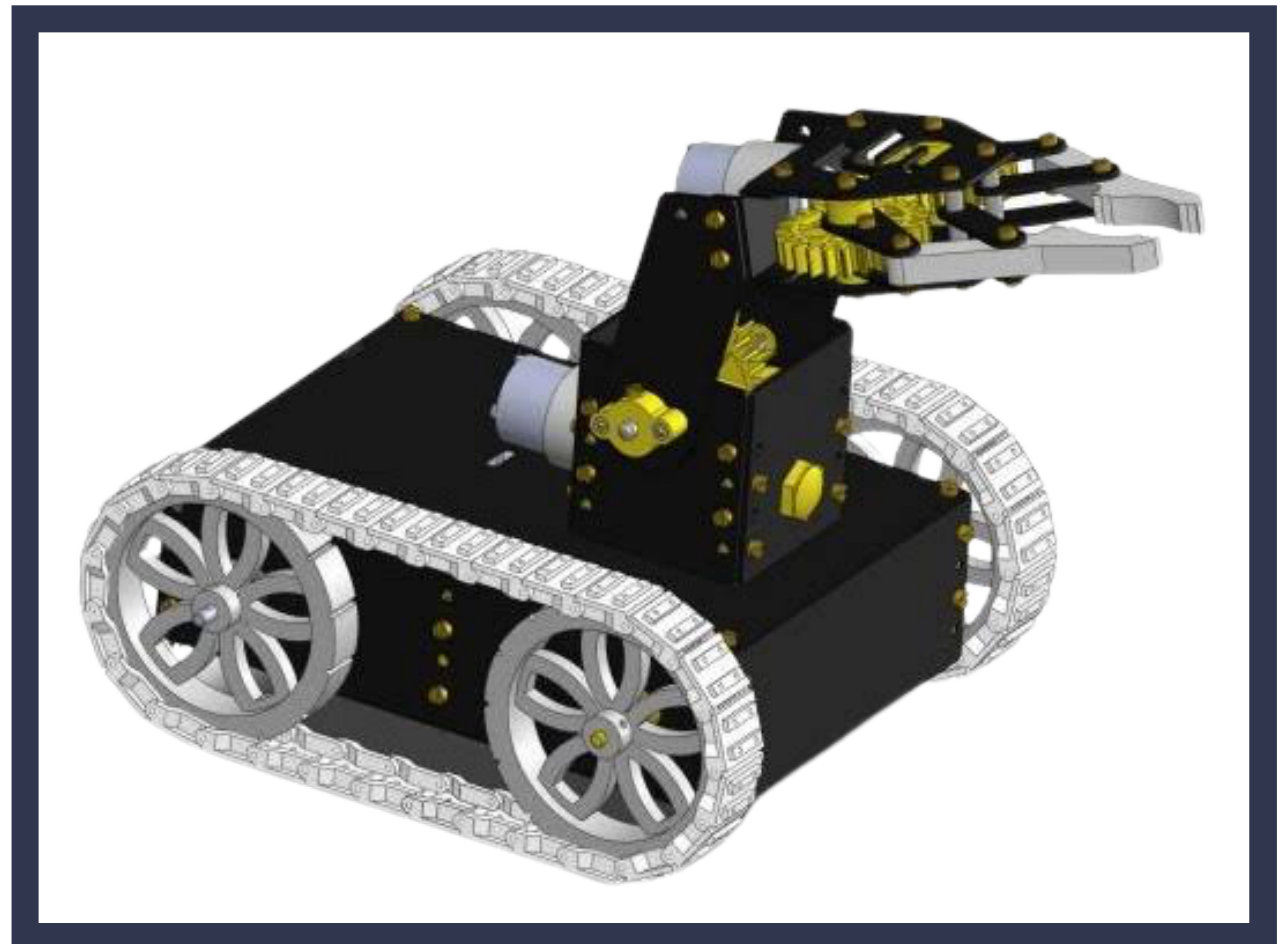
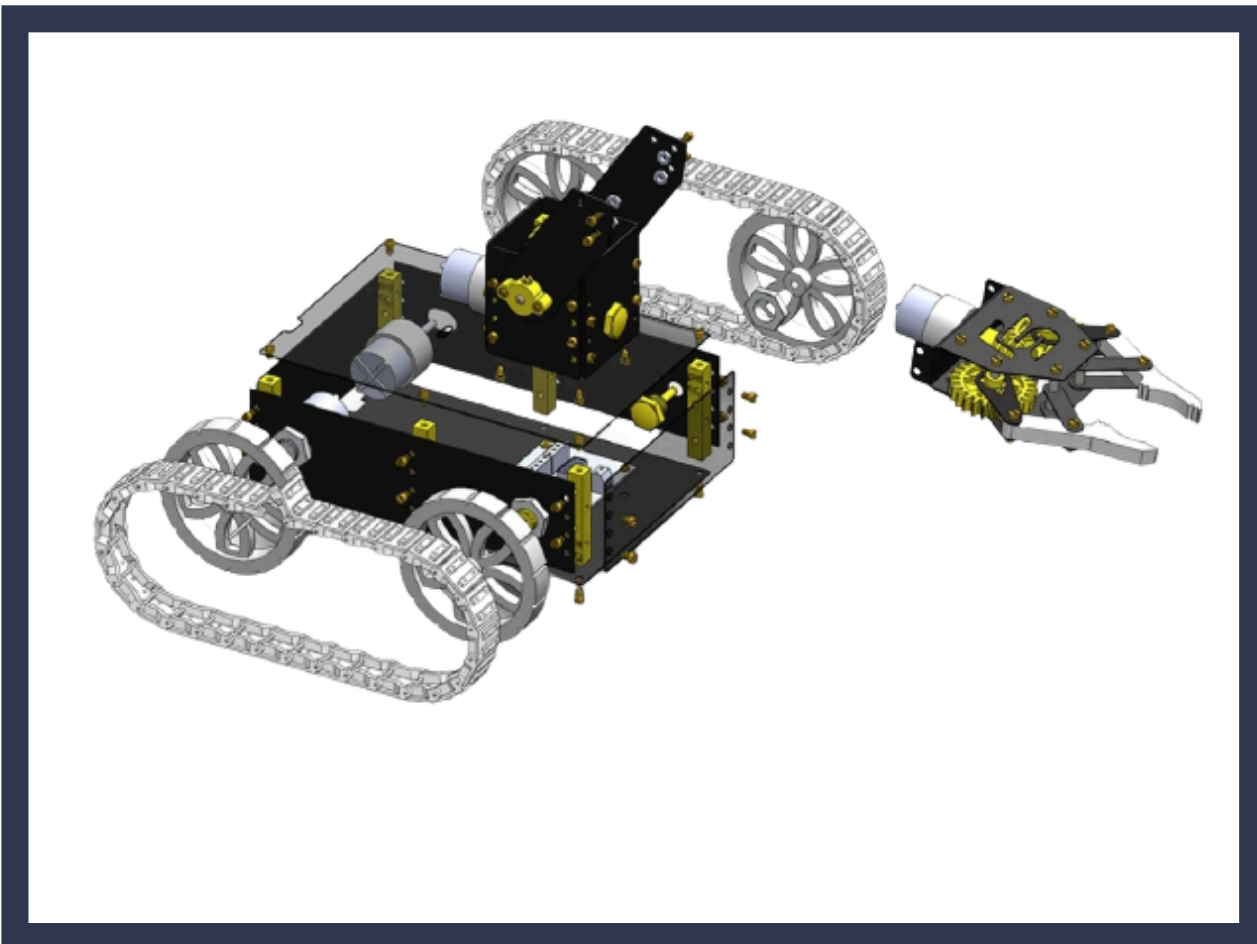
- Mechanical Construction Board
- Arduino Uno compatible rev 3 with USB Cable
- HC - 05 Bluetooth Module
- On board L293D motor driver x 2no's
- LCD 16x2
- On board Buzzer Module
- Grabber Unit
- Robot Chasis
- DC Geared Motor x 4nos
- Wheels x 4no's
- Caterpillar track Modular Belt
- 12V DC Adapter

### DESCRIPTION



The pick and place robot is a micro controller based mechatronic system that is used to pick the object from source location and places at desired location

The Robotic Arm is basically a manually controlled Do-It-Yourself Robot which uses Caterpillar type track belt locomotion. It is quite evident from the name that it will be used for pick & place operations, therefore it has a gripper with 1 DOF. The gear box is dominantly a mechanical assembly which uses a Worm gear assembly and hence can lift heavy loads. The platform is rear wheel driven wherein two high torque DC motors of 12V, 45 r.p.m. rating are used, additional two motors are used in the gear box and gripper assembly.



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