

Team Name – TECH SQUADRONS

ABSTRACT OF CYBORG-BREAK-IN

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GAME STRATEGY:

We will use a compact aluminium chasis, wired to remote control . The bot will comprise of 4 dc motors placed on either sides , with the help of DPDT Switches we will be using the bot for to and fro motion also along the side ways.

The autonomous gripper will be using the servo motors for the mechanism purpose,and the manual bot will be using the geared motor system for mechanism purpose.

The autonomous bot will be consisting of 2 dc motors and a gripper of same mechanism along with the light sensing mechanism to accommodate with the given scenario.

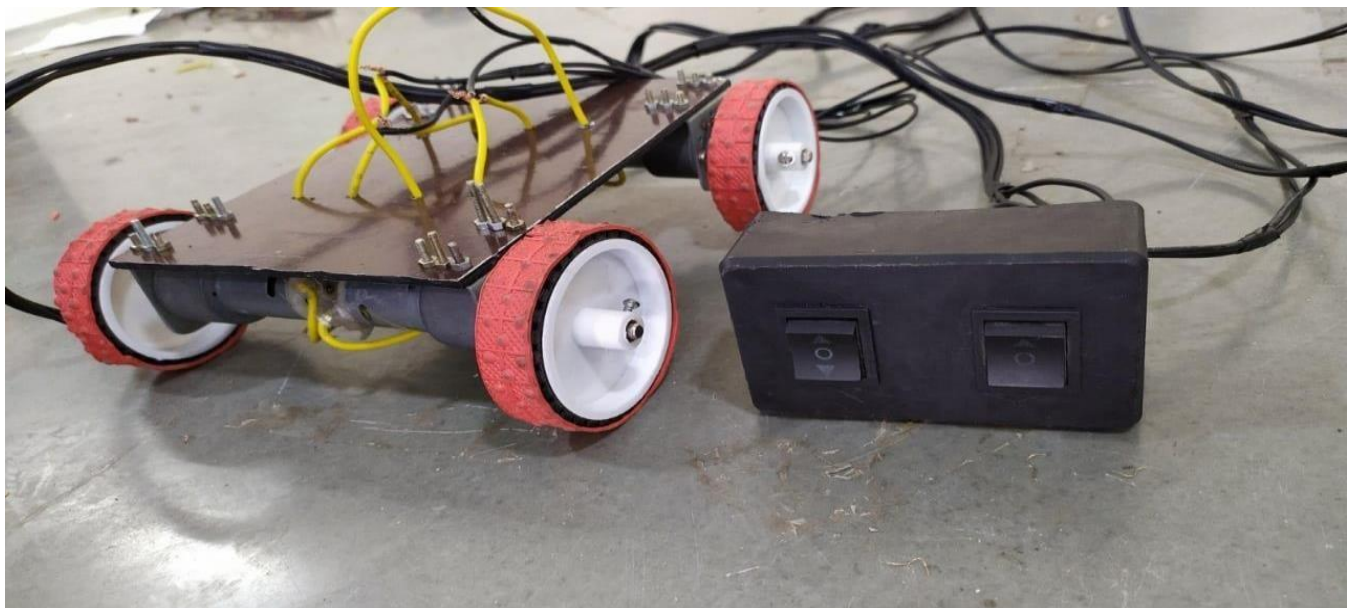
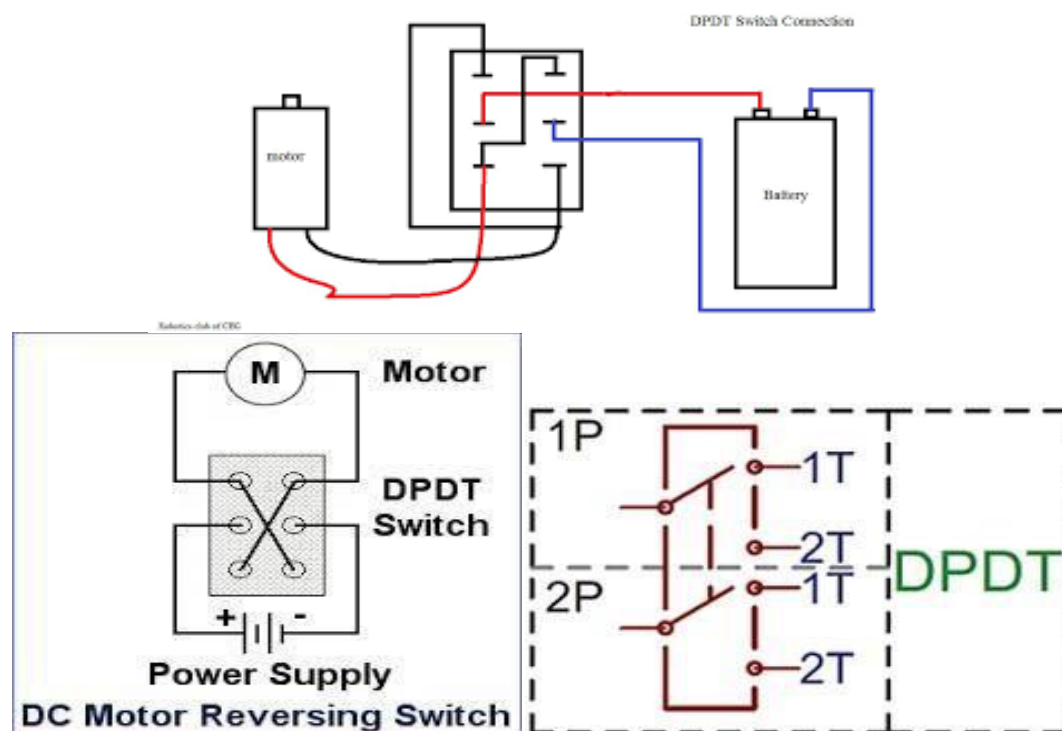
All the wires willbe bundled and would come out from the top of the bot to our remote control which will have Switches and batteries.

COMPONENTS USED:

- 6 DC geared Motors(jonsons) {300-400rpm,torque=1kg- cm) a dc motor is combination of motor and gear box.

- Wheels(8.5 cm of diameter)
- DPDT switches: These switches control two circuits but are always intact in a single actuator.
- Ir sensor, gripper
- DC power supply
- Chasis

- **CIRCUITS**



DESIGN DESCRIPTION:

- Manual bot size: 400*400mm
- Autonomous bot size: 300*300mm

Flow Chart:-

