Problem Statement

A unique, one of a kind event that will test your hard-core manual robotics techniques. Each team has to design a manually controlled robot which can be controlled from a remote location, using wired or wireless communication and is capable of climbing cylindrical tubes fixed to a vertical surface with variable slope, both up and down.

How to approach

First of all, you need to develop a mechanism for the robot that can be applied to the problem statement.

Materials Required

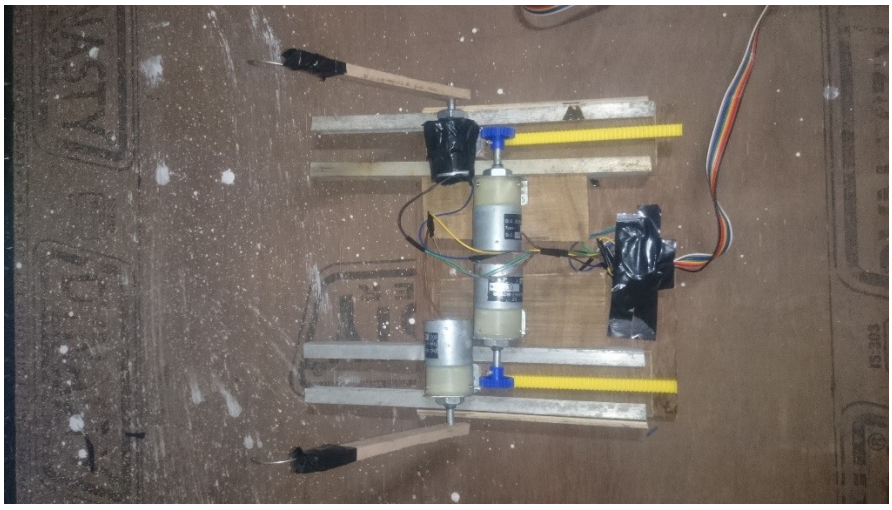
1. Ply Wood
2. Multi wire
3. Chassis
4. High torque motors
5. DPDT/Push buttons
6. Rack and Pinion

Directions for making

Rack and Pinion

This is a type of linear actuator that comprises of a pair of gears which convert rotational motion into linear motion.

This mechanism can be used for up and down motion of the arms of the robot if a low RPM motor(15RPM) is used for both the arms.



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