

ROBOVR

SRB SKATING

About the game:

For Skating at RoboVR, participants have to build a robot per team and has to complete the given task by skating around the arena.

Components and its Specifications:

Sr. No.	Components	Specifications
1.	Chassis	Aluminum Sheet (5mm thick)
2.	Arduino Uno	ATmega328P
3.	BO Motors (x4)	300 rpm
4.	Wheels(x4)	Off-road type
5.	Battery	5A, 12V
6.	Motor Driver L298N	2A
7.	Jumper Wires	MM, FM, FF
8.	Bluetooth	HC-05
9.	Android Mobile	With a Bluetooth application

Robot Details:

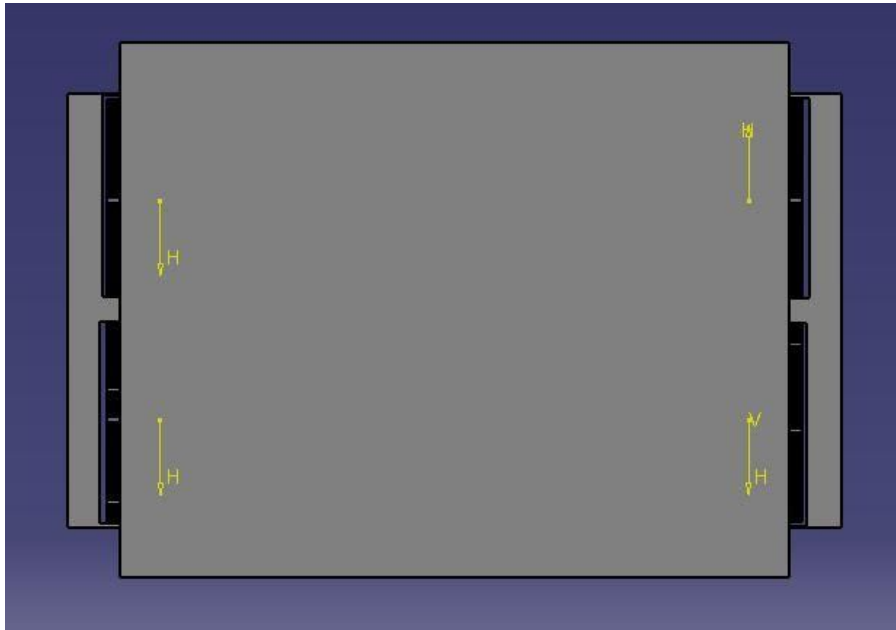
Robot Dimensions: 200*290*144 (all dimensions in mm)

Robot Control: Wireless

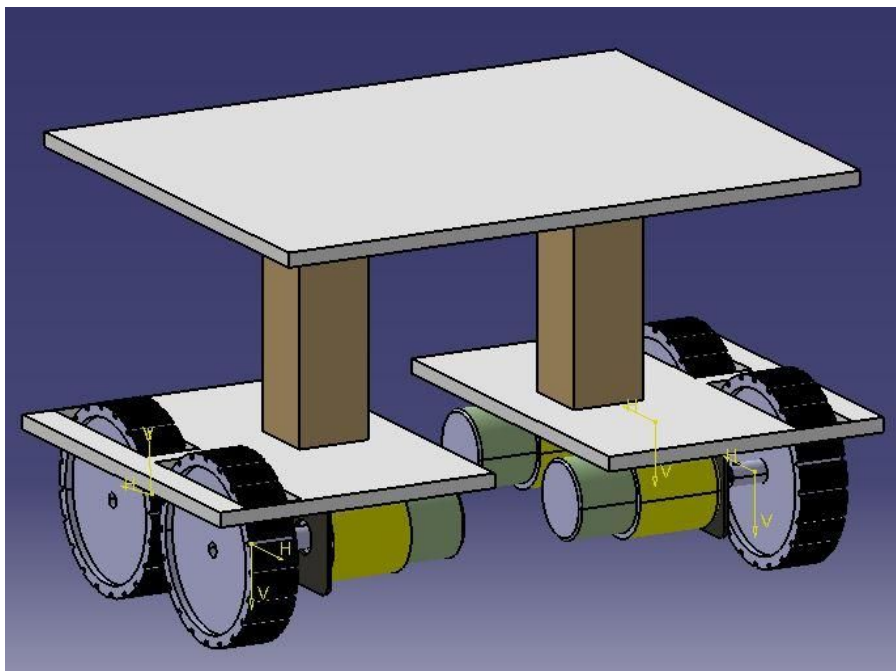
Robot Drive: 4 Wheel Drive

Mechanical Design:

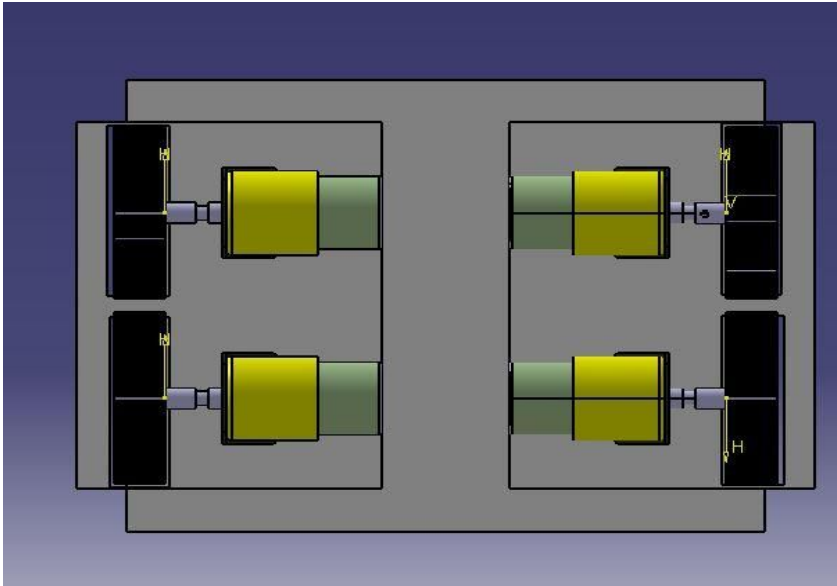
Top View



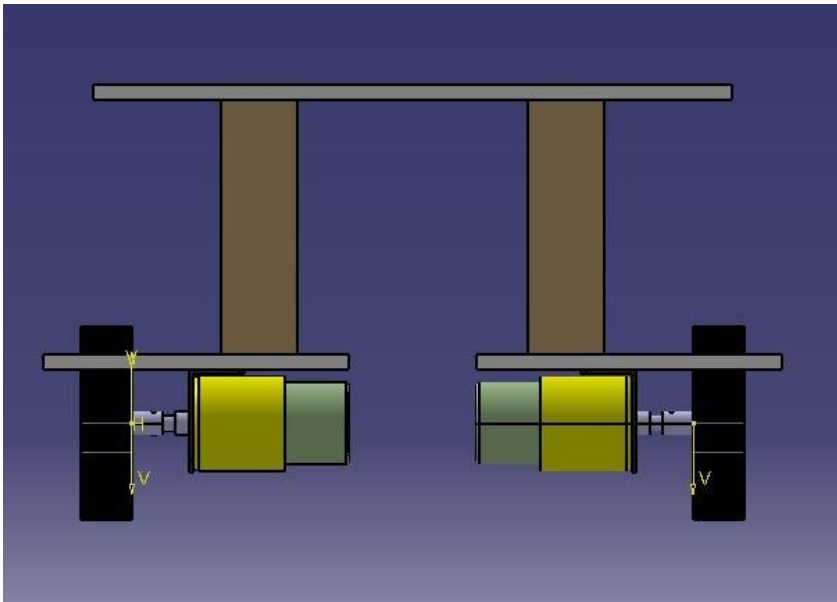
Isometric View



Bottom View



Front View



Working:

The robot is controlled with remotely operated from a mobile phone. For this Arduino UNO is used as microcontroller and Bluetooth module HC05 is mounted on Arduino for wireless operating. Motor driver L298N is used to amplify current.

Connections:

