

**ROBOVR**

**SRB**

**SKATEBOARDING**

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## About the game:

For Skate Boarding at RoboVR, participants have to build a robot per team.

## Components and its Specifications:

<b>Sr. No.</b>	<b>Components</b>	<b>Specifications</b>
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:** 265\*109\*45 (all dimensions in mm)

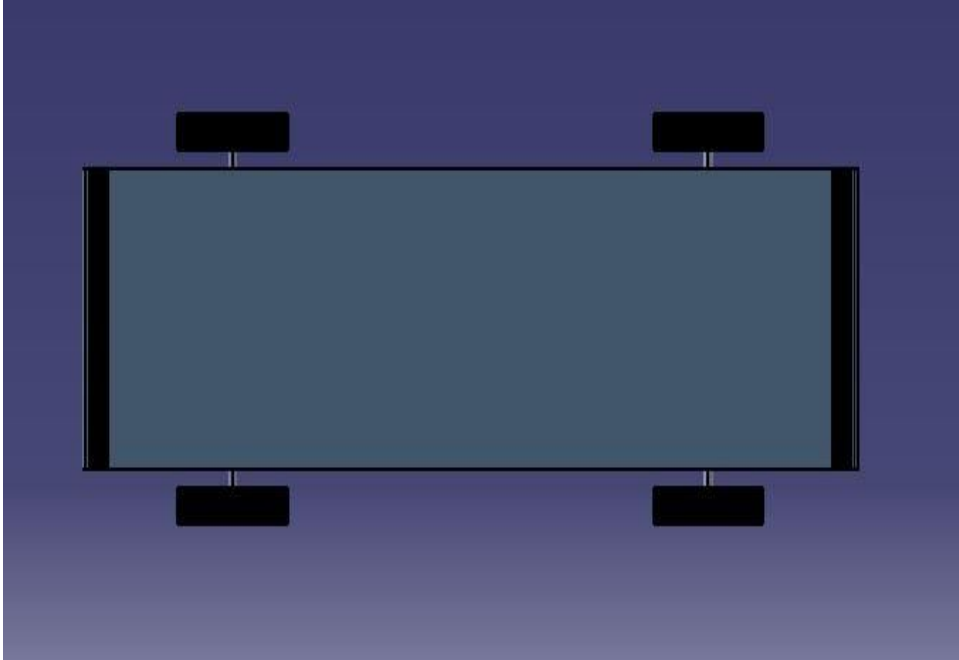
**Robot Control:** Wireless

**Robot Drive:** 4 Wheel Drive

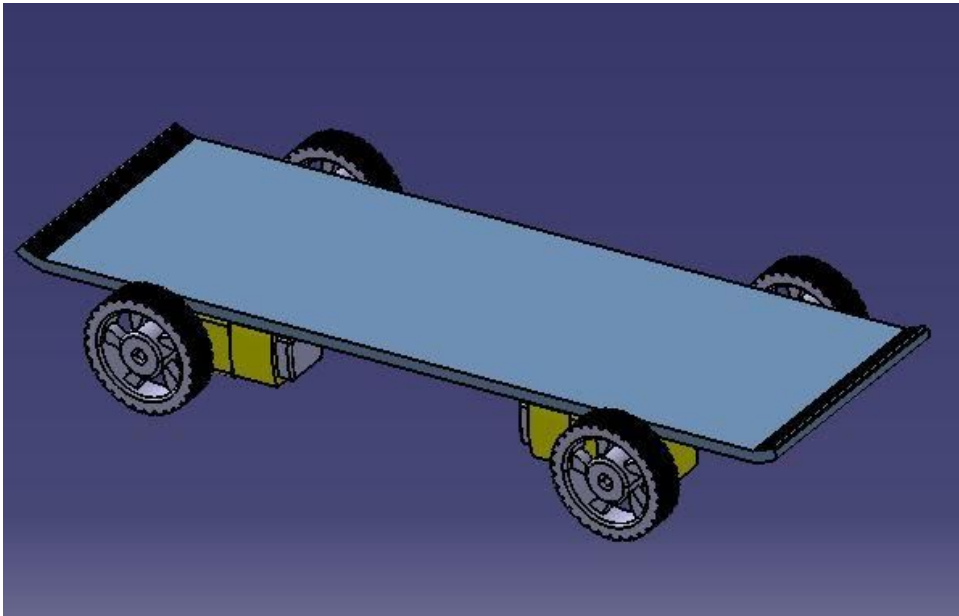
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## Mechanical Design:

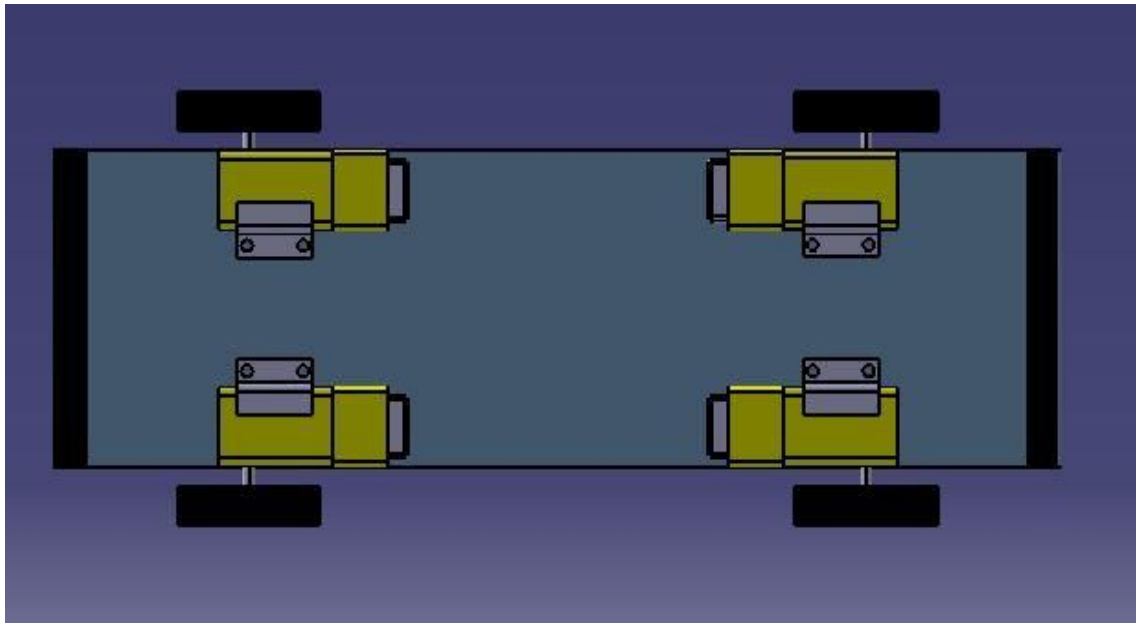
**Top View**



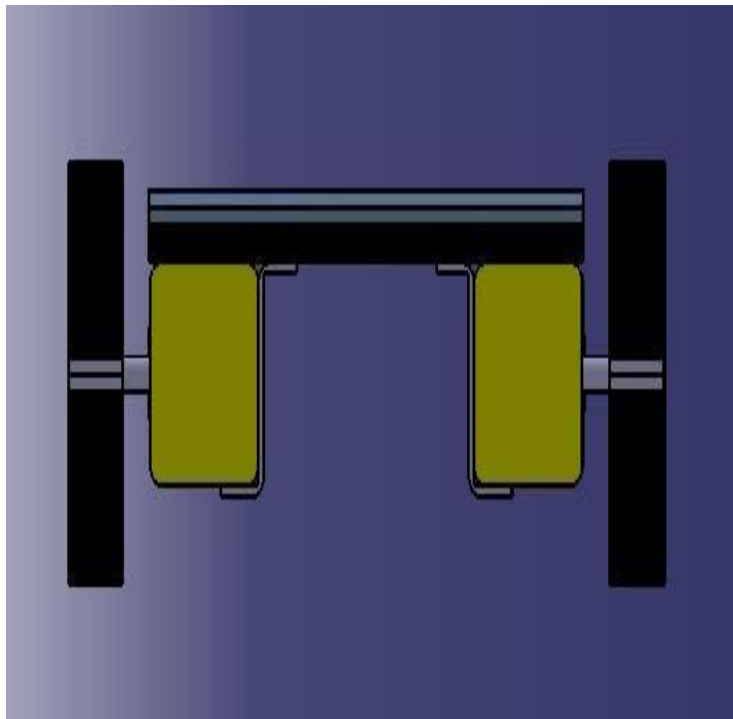
**Isometric View**



**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:

