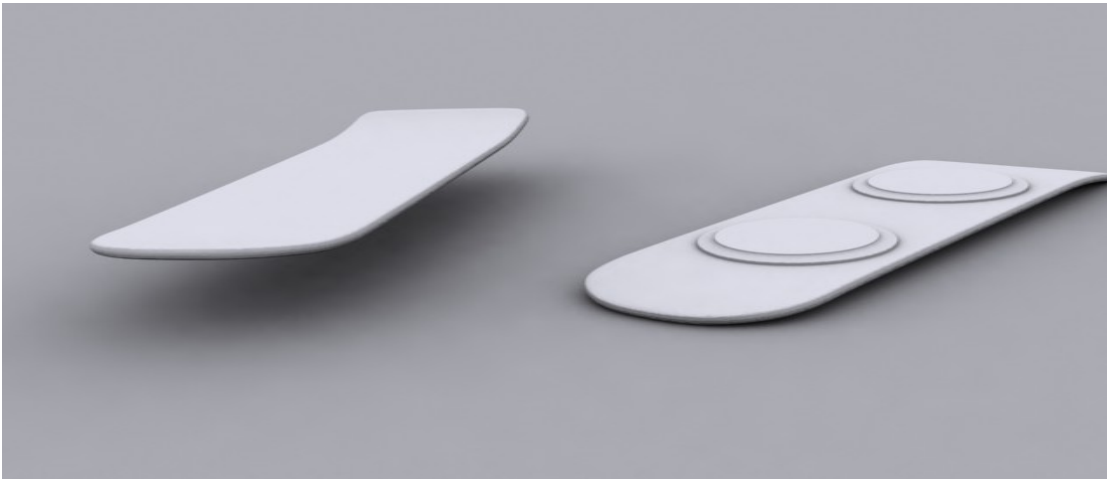


ITSP ABSTRACT - HOVERBOARD



LIFT GENERATION

Two thrusters to generate lift (fans with high controlled rpm). To generate more lift we will be having propulsion (fuel as butane and its derivatives) and to control the propulsion, nozzle mechanism will be used (used in gas stoves (controlled servo motor will be there instead of nozzle))

THRUST

Same propulsion mechanism will be there on the back side of the board .

CONTROL

No rolling will be there, one raddar for yaw. By changing the thrust of the thrusters angle of attack can be changed .

Alumina will be used for body parts manufacture (so that no melting takes place). Initially it will be a remote control hoverboard.

BIG TARGETS for the project

1. Aerodynamic designing
2. Making the board with the motors and propellers only
3. Making it remote controlled
4. Propulsion mechanism
5. Gesture control mechanism

ROUGH IDEA of things required

- 1- 8 servo motors
- 2- 3 high rpm motors
- 3- One battery
- 4- 3 butane cylinders (deo bottle sized)

- 5- 3 propellers
- 6- Things for making it RC controlled
- 7- nozzle

To making hand gesture controlled

- 1- Programmable chip
- 2- Sensors
- 3- Rf circuit
- 4- Accelerometer