

LAW BOT - Land Air Water Bot

Team members -

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Description : We want to make a bot which will be able to move in all mediums , land , air and water . The bot will have to be light weight . First we will make an air bot which is able to take flight for small heights . Then we will modify it into a land cum air bot .in the final stage we will try to put additional features onto it so as to make it swim in water . Waterproofing would be done too . In this entire process we will have to take into account our future steps so as to reduce the number of failures . Please see link [-LAW BOT](#)

Implementation Steps :

Week 1(most important) : pre planning and designing for the entire bot , materials reqd . waterproofing etc

Week 2 : Circuit Designing, Console making, Arrangement of components, so as to make the bot run on air .

Week 3 : Taking into consideration the weight constraints,designing the bot so as to be able to make it run on land .

Week 4 : try to make the bot more and more in harmony with its two features

Week 5 : now put an additional rotor for motion in water .

Week 6 : trouble shooting , making minor adjustments and improvements

Components Required(may vary):

Motors High RPM Motors

Switches Breadboard

Batteries

Transmitter

Receiver

transistors

Fan Blade

Wheels Of appropriate size

Light weight material for base.

Knowledge Gained

1. aeromodelling basics
- 2: general mechanism of car model.
- 3: fluid mechanics
- 4: programming softwares (may be)
- 5 :basic electronics

Cost estimated : 10,000 INR