EXPERIMENT NO. 1

Name of Enperiment: To Study rustomised drone components

Theory:

- 1) Frame: Frames are made up of fibres and integrated PCB for Soldeling Esc?s and battery wire, A frame also provides individualsm and character to build:
- 2) Propilors: Propilors are simple fans while convirts motion of motor into upward Houst. They are made up of flendle fibre to be unbreakable while crash landing.
- 3.) Motor: BIDC motor is a type of Synctronous motor that is pourred with a DC source via an inelta to produce an AC elutric avvient to drive each phase of the motors. The advantage of motor is high speed and elutronic control.
- 4) Flight Controllers: A flight mengrikingly control the motion of the drone. The drones can rotate and accelerate between each of its four matters.
- 5) Electronic Speed Controllers: 41 is an electronic device us to contract the speed of motor and direction also. 41 follows a speed reference signal and varies the switching rate of [FET] fuld effect transistors.

- 6.) Battons: Littium polymer battony in Lipo is a Surple rechargable battony with different coverent rating and number of alls.
- 7) Transmitter / Piciever: Transmitter act as a controller from the uses It is a Radio communication control system. The signal from transmitter to recieved by the receivere placed on the brane of the drave twough anteena.
- 6) Landing Geor: At provide a suspension system during take off and I leaving / landing At is during to absorb and duspake the bimetic energy of landing.

Jight antrollers, eletronic Controllers, Ballery, transmitter,

Nathodology:

Skp1: Quadcopter frames and Suitable flight controller boards. Quadcopter fram 2500 or 330 will be a good stort the value a 50/330 means the motor to motor diameter.

Skp2: Power dutribution based to distribute power from

Flight controllers: We could use any flight controllers.

Brushless motor and propellers. For miniguad pilats, 3 blade propellers and equally couples as two blade.

Skp3: Elutronic speed controllers (ESC) controls and regulates the speed of an elutronic brushless motor.

Sepq: Demote Control System (RC) is required to manually control variable.

Skp 5: Universal Battery Eliminator circuits (UBEC) Converts the voltage to power 4+ will convert main battery voltage.

Step 6: Power module is an about way to provide to out flight controllers.

Skp7: Securible the frame.

Step 8: Connect Esc to notors and plug Esc's to power autoritation board to soldiled pads.

Step 9: Inetall pouvor modulion france.

Skp10: Plug calle from power module to power part of your flight witroller.

On flight controllers.

	Conclusion: Sofrom the above information we can literally conclude that we have studied the drone pointly duply. We have learnit every component of drone interface, hence we have studied the customized drone components interfacing.
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