

# ABSTRACT

ITSP SUMMER 2014

## GENERAL INFORMATION

Project Name : **Droid R2-D2 1.0**

Team name : **The Technorati**

Project Breif : Constructing fully functional and stable Quadcopter . Adding essential sensors to make bot autonomus with GPS functionality (if time permits).

## IMPLEMENTATION STEPS

Timeline :

**WEEK 1::** Constructing frame and coding flight stabiliser.

**WEEK 2::** Adjusting bot parameters for stable flight (troubleshooting).

**WEEK 3::** Adding required sensors and writing essential code for integrating sensor functionality with flight control broad.

**WEEK 4::** Readjusting bot parameters for optimal flight using sensor functionality.

WEEK 5:: Coding for autonomous functions.

# COMPONENT LIST

- Arduino Mega
- Frame
- Rotors – Brushless DC motors
- Propeller
- Battery – Power Source
- IMU – Sensors
- Microcontroller
- ESC (Electronic Speed Controller)
- RC Transmitter (Or Android based controller)
- Transceiver
- Power Distribution Board