Remote Control Toy Car Using Arduino Uno

***Abstract*—This document shows how to implement remote controlled toy car using arduino.**

1 Components Required:

1) Arduino board
2) Car with Motors
3) L293D motor driver IC
4) Flysky FS-i6X 2.4GHz RC Transmitter
5) FS-iA10B 2.4GHz Receiver
6) Breadboard
7) Wires

2 circuit connection:

1) Refer the pin diagram of L293D motor driver IC

   Arduino/IDE/MotorControl/Figures/pin.jpg

2) Connect external 9V battery to the Vcc2 pin of L293D motor driver IC
3) Connect Vcc1 pin to 5V output on Arduino.
4) The input and enable pins(ENA, IN1, IN2, IN3, IN4 and ENB) of the L293D IC are connected to six Arduino digital output pins(9, 8, 7, 5, 4 and 3).
5) Connect one motor to across OUT1 & OUT2 and the other motor across OUT3 & OUT4.

   Arduino/IDE/MotorControl/Figures/wiring.jpg

6) Go to ardunio IDE and Write the the following code

   Arduino/IDE/MotorControl/Codes

7) Click on Compile and Upload the code to Ardunio board.
8) Now you can the controll toy car using transmitter.