Project Name:Line Following Robot Author:Ayush Bajpai

**Requirement Specification (user’s perspective)**:As a user perspective,following are the requirements-

1.User don’t want to navigate the robot.

2.User only wants robot to move on a particular path.

3.User wants robot to only cover distance from path A to path B.

4.User wants robot to beep whenever obstacle comes infront.

5. User will just set the robot on a path and then robot will automatically reach the destination once intitiated.

**Requirement specification (designer’s perspective):**As a designer perspective,following are the requirements-

1.The robot will be running on DC supply.

2.The robot will have a couple of IR sensors which will guide the robot where is light and where is not.

3.The robot will have a microcontroller(in my case i am using Arduino UNO).

4.The system will also have a L293D motor driver as motor driver provides sufficient current to run motor.

5.We will also use a voltage regulator.

6.I will program it using Arduino IDE but you can use any other aswell.

**Constraints:**

Cost effective:less than 10$.

Arduino UNO:6$

IR sensors:1$

Motors:3$