

Bluetooth Controlled Car

IOT Mini Project

Nidhi Hemrajani - 46

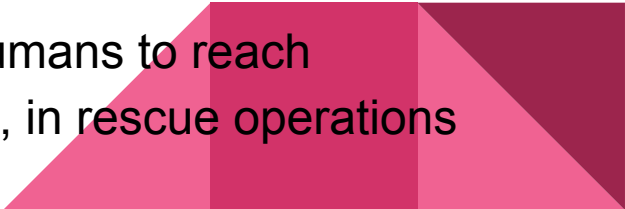
Vedant Jadia - 47

Yash Jain- 49

Karan Jain-50

REASONS FOR CHOOSING THIS TOPIC:

This Topic was chosen as it has many advantages in the real world. We picked this as our project as robotics has become a major part of our everyday lifestyle and also has a wide scope in the engineering field. It plays a vital role in the development of new technology.

1. The car can be used for monitoring or investigation with a few modifications.
 2. This model of a Bluetooth controlled car can serve as a gateway to the field of robotics and automobiles and will help us gain some more understanding into the aforementioned fields.
 3. The car can be handy in places where it's difficult for humans to reach however, bluetooth signals can do the work. For example, in rescue operations or for field investigation, etc.
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BLOCK DIAGRAM

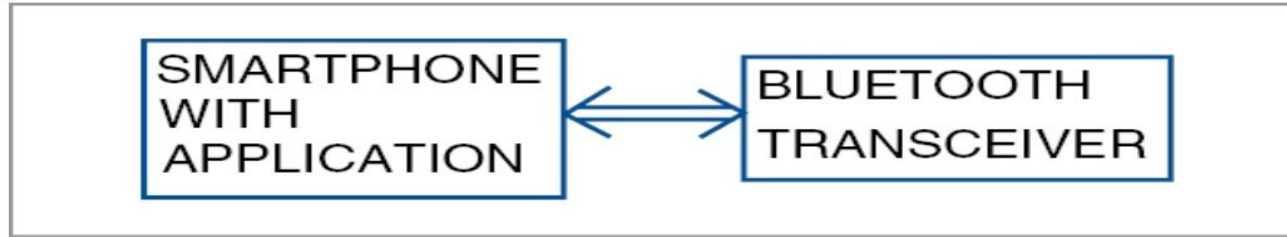


Fig. 2: Block diagram of transmitter side

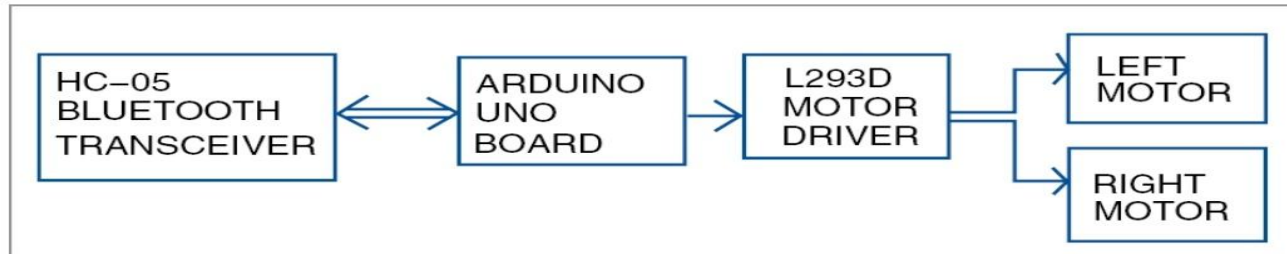
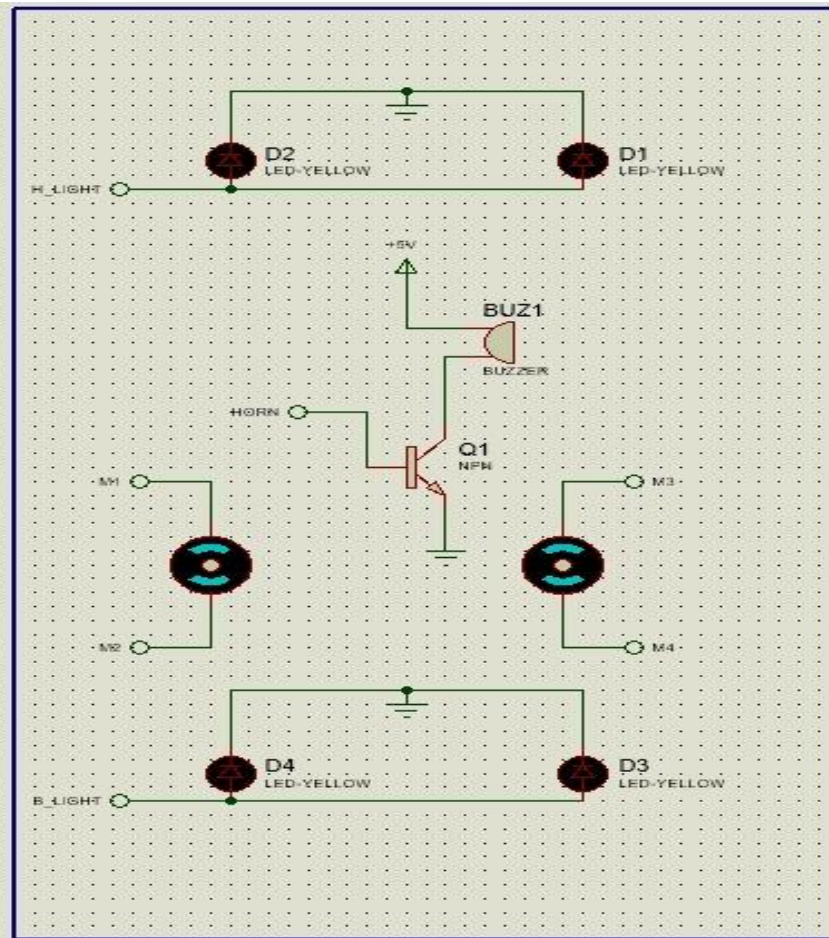
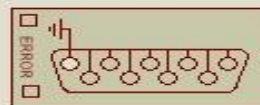
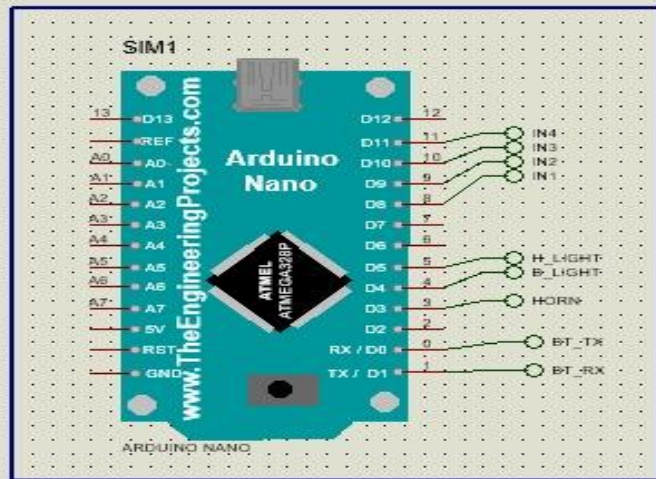
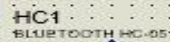
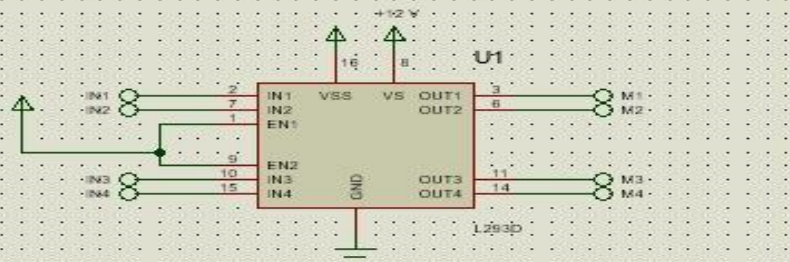


Fig. 3: Block diagram of the receiver side

CIRCUIT DIAGRAM



Hardware Software Requirement & Costing

| Items | Costing (in Rupees) |
|---|---------------------|
| Arduino NANO | 175 |
| HC-05 Bluetooth Module | 250 |
| 12V DC Geared Motors x 2 | 250 x 2 |
| 9V Rechargeable Battery | 160 |
| L293D H-Bridge Dual Motor Drive IC | 39 |
| Buzzer | 35 |
| LEDs x 4(2 for Headlights and 2 for Taillights) | 4x4 |
| Connecting Wires x 10 | 1x10 |
| Breadboard | 90 |
| Total: - | 1275 |