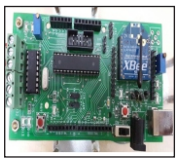
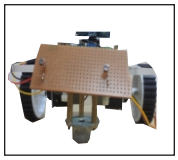
WIRELESS ROBOTIC BUGGY

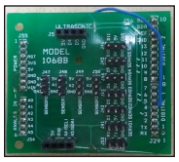


PCB with Xbee and Arduino

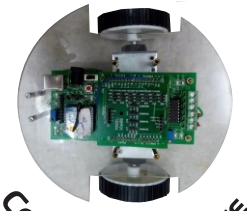
PCB with Arduino and Bluetooth



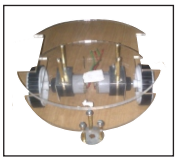
Red wire is vcc
Black is ground
Yellow is data



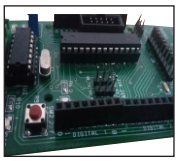
Sensor Shield



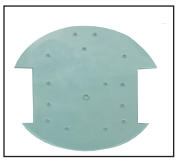
Complete package



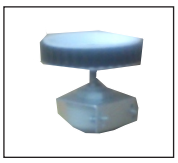
Solder Wires For Motors



Arduino Board



Acrylic Sheet



Gear Motors

INTRODUCTION

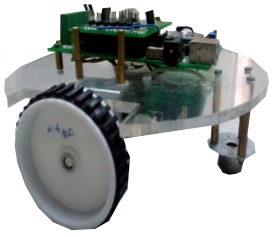
The multidirectional smart robotics system must have the following features Like the hardware setup, processor setup,and wireless communication etc.,Robotics etu.

ROBOT MECHANISM

- Robotics wheels
- Blue/ red coloured robotics chassis
- Motors : 2 metal geared 12V DC motor, 150rpm
- 6x12mm key way aluminum coupling

ROBOTIC PROCESSOR BOARD

The system must be supplied with arduino processor with on board zigbee and bluetooth for control and movements



- Atmel Atmega 328 controller IC(Arduino Controller)
- Motor driver ICs l293d
- On board xbee 2.4 GHZ facility available for robotics control
- Sensor interfacing PCB, plugable On main board.
- The system must be supplied with sensor interface PCB With facility (ultrasonic, accelerometer, gyro scope, 4 analog sensors,6 PWM servomotors optional)
- Gyroscopes range: +/- 250 500 1000 2000 degree/sec
- Acceleration range: +/- 2g, +/- 4g, +/- 8g, +/- 16g
- USB 2.0 compatible for programming of PCB
- 16 MHZ Crystal Oscillator Facility
- Separate reset switch facility for xbee, controller
- On board 4 SMD leds for digital output indicator
- The system must be supplied with rechargeable batteries 7.4v DC (Lithium Polymer battery) 2200mAh

THE ROBOTIC CHASIS

- Diameter 50mm x width 20mm Dual rim
- 50 x 20 mm enclosure
- Nearly 1kg
- Acrylic

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