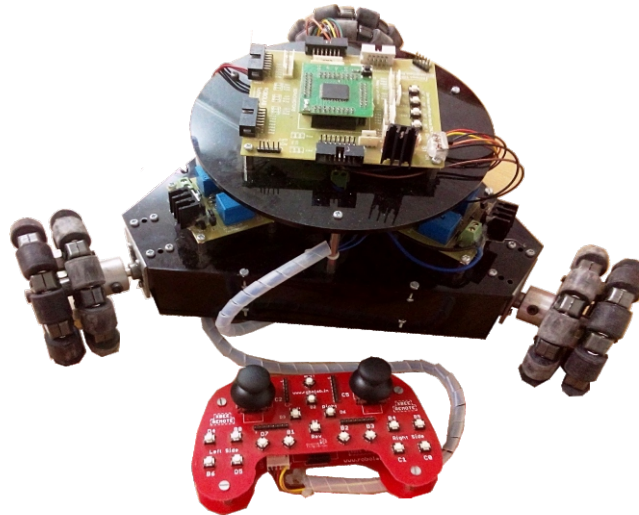


ADVANCE ROBOTICS BAGGI SYSTEM



INTRODUCTION

The multi directional smart robotics system must have the following features Like the hardware setup , processor setup , wireless communication etc ,Robotics etu

OMNI-DIRECTIONAL WHEELS

- Star chassis with 120 included angle
- Motors : 3 metal geared 12V DC motor, 100rpm and 2kgcm torque
- 6x12mm key way aluminum coupling

PROCESSOR BOARD

The system must be supplied with both arduino A ATMEGA 128 as well as ARM processors

1. Specifications:

- Input Voltage: 9V – 12V DC
- Support for independent control of 3 high torque servo motors
- LCD display 16*2 for program debugging
- External interrupt trigger facility
- On board USB programming facility

RELAY & MOTOR DRIVER Circuitry

SPECIFICATIONS:

- Operating voltage up to 24V
- Continuous DC current up to 10A
- Bidirectional speed control for 1 DC motor

PCB CONTENTS:

- Two 12V coil, 10A contact current SPDT relays
- IRF44 power mosfet
- Bridge of flywheel diodes (1N4007).
- Phoenix connectors for power supply and motor output connection.
- 5 pin relimated connector for TTL i/ps.
- Remote control with 2 joysticks and 16 keys to control and xbee interfacing facility available
- 12V DC (Lithium Polymer battery) 4200mAh

MECHANICAL DIMENSIONS

- Diameter 100mm x width 40mm Dual rim
- 300 x 50 mm equilateral triangular enclosure
- Nearly 3.1kg
- Acrylic



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