Abstract

This paper describes design and implementation of android application based bluetooth toy car. In this work android mobile platform is used for controlling toy car. Android application provides graphical user interface to the user. The toy car is composed of three DC motor with gear, bluetooth module, microcontroller unit, H-bridge and LCD display. Two motors are used for controlling speed and direction of toy car and one motor is used for general purpose. Bluetooth module accepts control signals from android mobile and sends data to the microcontroller unit. Microcontroller unit processes the received data and generates control signal for DC motor and LCD. Keil software is used for microcontroller programming and android application is developed with Eclipse and android SDK.

References

Design and Development of Android Application based Wireless Toy Car

- Bao-qiang Xi; Cheng-hua Fu, Design of Intelligent Toy Car Motion Control System Based on the AT89C52, E-Product E-Service and E-Entertainment (ICEEE), 2010 International Conference on, pp. 1-4, 7-9 Nov. 2010.
- Jianye Liu; Jiankun Yu, Research on Development of Android Applications, Intelligent Networks and Intelligent Systems (ICINIS), 2011 4th International Conference on, pp. 69-72, 1-3 Nov. 2011
- Reto Meier: Professional Android 4 Application Development, India: Wiley India.
- http://developer.android.com
- http://robokits.co.in

Index Terms
Computer Science Mobile Applications

Keywords
Android Application API Bluetooth H-Bridge DC motor