Mobile Sensor Network Based Remote Control

Project ID: YD-2a

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Project Overview

Introduction:
This project is an embedded systems work using a mobile sensor network based remote control. The complete system consists of a remote control, a programmed object and a wireless communication channel. The programmed object can be controlled by the remote control via the wireless communication channel.

Objectives:
- To build a control circuit
- To form the wireless network
- To link up all the system

Block Diagram:
Implementation:

Control Circuit Layout Design

Components Assembly

PCB Fabrication

Interface

Transmitting Telos

RF

Receiving Telos

Control (UART)

Object
Result:

Front view of the remote control  Back view the remote control

Achievements:

- Built a remote control
- Built a mobile sensor network
- Interfaced between remote control and the network
- Controlled a object with desirable actions

Conclusion:

In this project, the basic functions of the remote control was implemented. The performance of the mobile sensor network was satisfied.

There is room for further development of this project. And there are wide range of functions can be implemented on the remote control to make it better.