OBJECT TRACKER ROBOT

ABSTRACT

Robotics is part of Today's communication. In today's world ROBOTICS is fast growing and interestingfield.It is simplest way for latest technology modification. Now a day's communication is part of advancement of technology, so we decided to work on robotics field, and design something which will make human life simpler in day today aspect. Thus we are supporting this cause.

Robotics is the branch of technology that deals with the design, construction, operation, structural disposition, manufacture and application of robotsand computer systems for their control, sensory feedback, and information processing.

Object detection robots are intelligent robots which can perform desired tasks of detecting and following the object. Here we program the robot which will work according to commands send by PC. In PC we write matlab program to identify red object in the image. Here robot equipped with camera will transfer images to computer. Matlab program will be written to identify the red object in Image. And the commands will be given to robot as per the position of object and robot will follow the object.

BLOCK DIAGRAM:

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┌─────────────┐                          ┌─────────────┐
│   Camera    │                          │  Wireless   │
│  Receiver   │                          │   Camera    │
└──────┬──────┘                          └──────┬──────┘
       │                                        │
       ▼                                        ▼
┌─────────────┐                          ┌─────────────┐     ┌─────────────┐     ┌─────────────┐
│             │                          │  Microco    │     │   Driver    │     │             │
│     PC      │                          │  ntroller   │ ──▶ │   Circuit   │ ──▶ │    Motor    │
│             │                          │   89C82     │     │             │     │             │
└──────▲──────┘                          └──────▲──────┘     └─────────────┘     └─────────────┘
       │                                        │
┌──────┴──────┐                          ┌──────┴──────┐
│     RF      │                          │     RF      │
│ Transmitter │                          │  Receiver   │
└─────────────┘                          └─────────────┘
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