

## **Abstract**

The development of human-computer interaction technology fully developed, people pursue the “rely mainly on people while computer subsidiary” human computer interaction. The Motion Sensing technology rise in recent years, the technology such as Wii remote, Playstation move and Kinect. Of the above industry, game industry develop rapidly, and kinect get closer to people’s need. In order to make our lives better, the Motion Sensing technology will be apply in our daily lives.

We used the Kinect developed by Microsoft. The user does not need to take the controller, the Kinect will capture the user's actions and track. When the Kinect recognizes the user who presses the virtual button, the robot will receive data by build-in Bluetooth and let user can control the Lego robot and perform the specified action. The monitoring part returns the real-time picture through the camera. The purpose of the design is that the user can easily manipulate the robot outside the field and reach the effect of supervisory.

Keywords: human-computer interaction 、 Kinect 、 Lego robot 、 monitor