DESIGN AND IMPLEMENTATION THE CONTROL OF AN ANDROID

Abstract

The development of this project has the goal of controlling an android robot that has 17 digital servomotors; the   position of each of the servomotors is controlled by pulse width modulation. The android also has a distance sensor that allows the android to turn around when encountered with an object that obstructs its way. To control the android robot a Max II Micro board card from Altera Company is used.

 The android analysis the pulse width that each of the 17 motors requires for its well functioning. The Max II Micro board has 4 push buttons, therefore the android can do up to 16 different tasks, it also has another input, that is considered to have priority over other inputs, this input is the distance sensor that the android carries on its head,

Also this android can be controlled by Joystick using another CPLD and a radio frequency transmitter and receptor.