International J. of Math. Sci. & Engg. Appls. (IJMSEA)
ISSN 0973-9424,Vol. I No. 2 (2007), pp. 249-257

AN EFFICIENT METHOD TO CONTROL HOME APPLIANCES FROM REMOTE LOCATION THROUGH TELEPHONE USING VOICE COMMANDS

AMAR L. RENKE, Y. M. PATIL & A. C. BHAGALI

Abstract

In the fast developing world today, the need to control electrical appliances from far away is becoming a necessity. This paper describes a system that is based on this need to control appliances from remote locations. Here an existing telephone line is used to send voice commands by which the appliances on the other end of the telephone line will be controlled. The device is controlled by a PIC microcontroller, speech engine SAPI 5.1 and PC. The use of the PIC not only adds flexibility to the design, but also reduces the amount of hardware used. In this paper sending voice commands operates two devices, whereas this can be further extended to control many devices according to the requirements of the user. The system is useful for physically challenged because they can't control the home appliances using their hands so they can control it by voice commands.

Key Words : *Intelligent Environmental Control System, Speech Application Programming Interface, Physically Challenged, Speech Engine, and Telemote.*