

Intelligent Home System-Control by PIC

DERYA İNCE

ELECTRICAL&ELECTRONICS ENGINEERING, University of Gaziantep, Gaziantep, TURKEY

Abstract

In this project basic systems (lighting, electronic household equipments, entrance door and alarm system) which are used in home was controlled by PIC. A small house prototype was designed and proper control element PIC controlled the home system. The electronic systems of house was controlled by two PICs with RF communication of each other. One of them was taken the information from Visual Basic via RS-232, the other one will take the information from first PIC via RF then transmits the information to the electronic systems of house.

Aim Of The Project

•Remote controlled house makes an easier life for people. •To give comfort to them To provide energy saving and •To increase safety

The Transmitter and **Receiver Circuit**





Which equipments to be controlled by remotely



References

•http://www.kontrolkalemi.com •Jeffrey, K. Visual Basic .NET: A Beginner's Guide. McGraw



Main Components

- •Computer
- •PIC Microcontroller
- •RS-232
- •RF System
- •LEDs and Lamps
- •DC Motor for door
- •The Prototype House



Project Development

i.First Phase : Prototyping ii.Second Phase : Implementation



Conclusion

The system provide home owner a smart environment where he or she can observe PC monitor and has a complete control over the household functions, access, security, automation, energy savings which also incorporates.

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•Yavuz EROL, Hasan H. BALIK, Serkan INAL and Duygu KARABULUT Safe and Secure PIC Based Remote Control •Mohammad Syuhaimi Ab-Rahman, Aswir Premadi and Kasmiran Jumari "Remote Monitor and Control based Access Control System using PIC Microcontroller