

HOME APPLIANCE REMOTE CONTROL USING MICROCONTROLLER AND POWER LINE

by

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APPROVAL AND DECLARATION SHEET

This project report titled Home Appliances Remote Control Using Microcontroller & Power Line by Tan Ai Ling (Matrix Number: 031080752) and has been found satisfactory in terms of scope, quality and presentation as partial fulfillment of the requirement for the Bachelor of Engineering (Communication Engineering) in University Malaysia Perlis (UniMAP).

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SUIS PERALATAN RUMAH KAWALAN JAUH BERASASKAN PENGAWAL MIKRO DAN TALIAN KUASA

ABSTRAK

Dalam kehidupan manusia moden hari ini, banyak yang bergantung kepada sains dan teknologi. Kini, di Negara-negara maju seperti di Jepun, America syarikat, dan china, mereka telah mencipta satu teknologi baru yang dapat diperkenalkan dimata dunia dan bertujuan untuk memudahkan pengguna semasa mengguna. Hasil penyelidikan dan kemajuan yang paling moden ialah dengan terciptanya satu sistem untuk mengawal pelbagai alat elektronik and electric tanpa wayer. Projek ini bertajuk “ Suis Peralatan Rumah Kawalan Jauh Berasaskan Pengawal Mikro & Talian Kuasa” sebenarnya adalah sebuah prototiap ,bertujuan untuk membina satu cara kawalan suis peralatan elektrik rumah dengan tanpa wayer serta melalui talian kuasa kediaman tanpa membazirkan kos yang besar di mana pendawaian kediaman juga dapat dipakai semula. Tambahan pula, untuk mencapai objektif ini, sistem yang telah direka ini juga bergabung dengan pengawal mikro ini sebagai nadi pemprosesan maklumat maka ia dapat mengawal kebanyakan alat eletrik di dalam rumah dengan hanya menggunakan satu alat kawalan jauh sahaja walaupun pengguna berada di jarak jauh dari suis tesebut di dalam rumah..

HOME APPLIANCES REMOTE CONTROL USING MICROCONTROLLER AND POWER LINE

ABSTRACT

Today's technology a lot of countries are in pursuit to advance in science and technology , for example in Japan , America , China. The purpose is to designed a system, which is to make life easier for consumer. For this project the title is "Home Appliances Remote Control Using Microcontroller and Power Line" this project actually is a prototype that enable to implement an electrical device switch control, combining the wireless technology and domestic power line. However, this system also combining with using microcontroller programming as the main information source to code the data has be use and send out to power line to function the equipments. Implementation of this project not only to make consumer life easier but also to reuse the domestic power line without implementing big costs .The concept of this project actually to built a new system to control many electrical devices in house by using a single remote controller, the user has distance from the switch, it have still can be control many electrical devices in home .

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