SMART SOLUTION AT YOUR DOOR STEP

By

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EMBEDDED SYSTEMS

DEPARTMENT OF NETWORKS

SCHOOL OF COMPUTING AND INFORMATICS TECHNOLOGY

A Concept Paper submitted to the School of Computing and Informatics Technology

For the Study Leading to a Project Proposal in Partial Fulfillment of the

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Science in Software Engineering Of Makerere University.

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1.0 Introduction

In many houses in Uganda today, devices are manually controlled. Where someone has to go physically to device to manage it. This is time consuming and tiresome. And these days, both man and woman are working and they want things to be done at a very fast rate, to save time.

So we have come up with this project which will help them in making their life style easy and fast by an automated smart home system.

2.0 Background to the Problem

These days, where technology has advanced in every field, and so people also want things to be easy for their lifestyle at home which can save their time. Many people as they leave home they forget to switch off lights, fans, AC’s, people with small children at home sometimes leave tv on and sometimes forget to close curtains.

3.0 Problem Statement

The problem this project will address is lack of a means to automatically control devices at home which can save both power and time.

4.0 Objectives

1. Main Objective is to automate and secure tasks done in a home.
2. Other Objective

* Provide a security mechanism to detect break ins.
* Provide an automatic curtain system.
* Provide automatic lighting system.
* Provide automatic air conditioning.

5.0 Methodology

We shall use both qualitative and quantitative research methodologies. We will be using interviews and questionnaires as our data collection tools.

6.0 Outcomes

With the aid of our system, a home owner will be quickly informed in case of a break in. The air conditioning of the home will automatically go on and off based on a given temperature. The curtains of the home will automatically be drawn or closed when it is day or night time respectively. The phone is our interface to systemThe whole system will be able to be overriden from phone.

7.0 References

Concept paper template retrieved from <http://cit4.mak.ac.ug/projects/?>

www.embedded.com