



P.O. Box 236, Tororo, Uganda
Gen: +256 - 45 444 8838
Fax: +256 - 45 4436517
Email: info@adm.busitema.ac.ug

www.busitema.ac.ug

FACULTY OF ENGINEERING
DEPARTMENT OF COMPUTER AND ELECTRICAL ENGINEERING
DIPLOMA IN INDUSTRIAL ELECTRONICS AND ELECTRICAL ENGINEERING
FINAL YEAR PROJECT REPORT
TITLE: AN AUTOMATIC DOORBELL SWITCH USING MOTION SENSORS

BY

ATHIENO KEVIN BU/UP/2019/1395

Email:keliankevin4@gmail.com

AND

ATUSIIMIRE TUGUME BARRY BU/UP/2019/2757

Email: barryatu8@gmail.com

SUPERVISOR: Mr BUTIME ERIC KATABARWA

This report is submitted to the department of computer and electrical engineering in partial fulfilment of the award of a diploma in industrial electronics and electrical engineering.

Abstract

Final year project is a prerequisite for the award of a diploma at Busitema university. The study about construction and testing an automatic doorbell switch with motion sensors was conducted by a group of two DEE students under the supervision of Mr. BUTIME ERIC. The study herein focuses on construction of the system

Door bells have come a long way since the electric doorbell was invented in the early 1800's. They were used to simply let you know someone was visiting your home. Before doorbells were available, door knockers or bells hung on the front door of the house and were used to alert home owners that they had a visitor. The first doorbells were mostly mechanical in nature till the invention of the electric doorbell which consisted of a doorbell button installed at the front door, hard wired to AC transformer and doorbell chime installed inside the home. Then came the battery wireless doorbells and the automatic doorbells. The objective of this project was to develop a motion sensor alarm based on a passive infra-red (PIR). The sensors detect a person and the doorbell is automatically turned on

However here we disclose some insights on the existing systems for example false alarms associated with pets in the automatic doorbells using Arduino and ignorance about the use of push buttons as well as difficulty in locating switches in the dark. The automatic doorbell having a motion sensor adds an extra layer of security because when someone walks on your porch or into your yard you get notified by the alarm.

ACKNOWLEDGEMENT.

We acknowledge with great pleasure the department of computer and electrical engineering for the continued support towards the development of this project proposal.

Great thanks to our supervisor Mr BUTIME ERIC for his guidance, class mates and friends for their practical help and prayers during the synthesis of the work. May the Almighty God bless you in all your endeavours.

Dedication

We dedicate this work to our families, friends, mentors (lecturers and technicians), the entire Busitema community and whosoever supported us in any way during our academic journey here.

DECLARATION

I ATHIENO KEVIN and my partner ATUSIIMIRE TUGUME BARRY declare that this project proposal is a product of our research and findings, it has never been submitted to any university for examination to the best of our knowledge.

NAME: ATHIENO KEVIN

Signature.....

NAME: ATUSIIMIRE TUGUME BARRY

Signature.....

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