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**FACULTY OF APPLIED SCIENCES**

**DEPARTMENT OF APPLIED PHYSICS**

PROJECT TITLE:

Design and Construction of an electronically controlled billboard

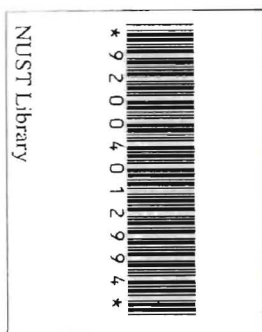
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Submitted in partial fulfillment of the requirements of the Bachelor of Applied Science  
Honors Degree in Applied Physics.

**Bulawayo, Zimbabwe**

**SEPTEMBER 2009**

## **Abstract**

The project illustrates a design that can be used to show multiple advertisements. This report highlights on the work done in designing, simulating and constructing the electronically controlled billboard. For any business to do well they must be some form of advertising taking place. The advertising should be profitable for the business. This project shows a method of reducing the number of stand alone billboards in a place. The project shows the how electronics controls mechanical systems. The circuits used in this report are fully described and reviews of other billboard systems are described. This information was useful in the design and construction .The control system is an intergration of mainly five circuits that are activated by the movement of the paper with hole. The main Intergrated Circuit (IC) is the 555 timer. Results collected assisted in the design of an efficient system. The system has been tested and operated according to the set standards. The system can be interfaced to Programmable Logic Controller and Peripheral interface Controllers since there is technology advancement.