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**FINAL REPORT OF DIPLOMA PROJECT**

**CLAP ACTIVATED REMOTE**

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## ABSTRACT

In today's world, digital is term that uses in much type of product. This is because of the dramatic way that all digital circuit and also digital technique in making the used product to make human life easier and comfortable. And this is why the 'Clap Activated Remote' is produced.

The function is still like the ordinary clap switch but the different is that this will detect and only be operates when there is four continuous clap within an interval timing. It becomes completely different from normal clap switch because it certain unique features.

The circuit is connected to the device selected, such lamp or fan, at the output and will 'on' and 'off' only when the claps produce. The special is that it prevent from the device being 'on' by itself with a single strong banged from a door or shouting person. The used of the condenser microphone at the transducer section produced the electrical signal to the buffer and then pass a few sections such as, the high pass filter and amplifier, comparator, main control and the relay driver. Finally, connected to the device that to be control such as lamp or fan.

# CHAPTER 1

## INTRODUCTION

### 1.1 Background

Circuit of a clap activated remote incorporating certain unique features, which is *present in our circuit. It overcomes the shortcomings observed in normal clap switches* because the normal clap switch need only a single clap to switch 'on' or 'off' but this clap activated remote requires four claps alternately to 'on' or 'off' the circuit.