

AUTOMATED FAN SPEED CONTROL SYSTEM

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ABSTRACT

This paper presents the design of automated fan speed control system. The method to develop this kind of fan is divided into two parts which are hardware and software development. The speed control system is accomplished using relay module, ultrasonic sensor and temperature sensor. The speed control is automated according to the room temperature. The automated fan speed control system is successfully designed and developed.

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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND OF STUDY

Nowadays, almost everything is automated. The need of automating the electronic devices is increasing day by day. From literature review, it proved that the automated system had potential to reduce the cost, increase the productivity, availability, reliability and performance.

The demand on the automated system had attracted many researches to focus in the field of automatic control system. From previous research done by various researchers had showed the innovation of the Automatic Temperature Controlled Fan Using Thermistor [1], Automatic Fan Speed Control System Using Microcontroller [2], Design an Automatic Temperature Control System for Smart Electric Fan Using PIC [3], Fan Temperature Detection Using Microcontroller [6] and Automatic Room Temperature Controlled Fan Using Arduino Uno Microcontroller [9].

In fact, with the rapid change of computer and microchip technology had showed the research on automated system still progress and ongoing. The automated system is needed by the human with the change

In this work, it is aim to design and develop the automated fan speed control system using relay module. The speed control is automated based on the temperature in the room. The concept of ON/OFF control system is implemented in this work.