

AUTOMATIC CLOTH HANGER USING RAIN SENSOR

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ABSTRACT

This thesis is about designing a model of automatic cloth hanger with box using rain sensor. This design is to help people that have no time to watch for their own cloth hang outdoor. This design is been controlled by the rain sensor and Programmable Logic Control (PLC). If raining, the sensor will sense it and turn the system on. When the rain sensor detects the rain, the cloth hanger is sliding into the box. The box is made from plastics and wood for water proof. After the cloth hanger is slide into the box, two plate of the box will automatically close the open space on a top and bottom. This is to make sure the cloths are not wet from the rain. If the rain is stop, the two side of the box that previously close will open and the cloth hanger in the box will slide the cloth hanger out again. The design will repeat the step again if there is a rain. The expected result from this design is it a user friendly and has a value of commercial promotion.

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CHAPTER 1

INTRODUCTION

1.1 BACKGROUND OF STUDY

Advancements in software and microprocessor technology provide great conveniences to daily human life. Usage of new generation technologies are became an important requirement in these days [1]. In the world that moving fast in technology, many things and work are done by machines and robots. Mostly the machines and robots are only used in the factory, but now days the machines and the robots can be seen at the office and house. The machines and the robots not only been used for heavy works only but can do many light works. At office we can see machines that help ease the workers work like computers, printers, coffee makers, elevator and many more. At house also has the machine such as washing machine, rice cooker, water heater, refrigerator and many more.

Therefore, automatic cloth hanger is design to help daily life. Furthermore, it will operate automatically. Automatic cloth hanger is a model that uses a rain sensor that located at the top of the pole that supports the hanger to detect rain. If there is a rain, the rain detector will detect and turn on the programmable logic controller (PLC). Then the cloth hanger will slide in automatically. While the cloth hanger is sliding in, there are two moving plate, the top and the below will moving out to seal the area of the cloth hanger. This is to make sure no water will hit to the cloth that be hung. The box made out from wood and the plate made out from plastic because of water proof and easy to get it.