

AUTOMATIC RAINPROOF CLOTHLINE SUSPENSION

MUHAMAD DANIAL IRFAN BIN ALHAMDU

(2013835796)

MUHAMMAD SYAZRUL BIN MAHADZIR

(2013825108)

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UNIVERSITI TEKNOLOGI MARA
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ABSTRACT

A clothesline is any type of string, rope, cord, or twine that has been stretched between two points and attached to the top of two stick as the holder. Usually, the clothesline is placed outside and above the level of the ground. Functioning as to dry the newly washed clothes. It can be attached either from a post or a wall. Washing lines are attached either from a post or a wall. Frequently located in outdoor such as back gardens, or on balconies.

This device will detect the raindrops and automatically a roof spread open to cover up the cloth. Hardware and software of Arduino UNO microcontroller based on sensor will produce and develop. It is to protect outdoor hanged cloth from getting wet meanwhile it can save human energy and time to pick up the cloth. For its expected results, all the sensors will be activated when the switch is turn on. The roof will automatically close after raindrop sensor detects the raindrops. The roof will automatically close when water sensor cannot detect presence of water. During the night, motion sensor will detect people nearby and thus LED and buzzer will automatically turn on.

This project development is limited within the design and modeling development of an automatic clothesline system consists of sensory system and simple movement mechanism system. The main function of an automated clothesline system was the ability to detect the presence of rain and spread open its roof instantly by using simple mechanism system without wasting human energy. The selection of materials,

TABLE OF CONTENT

CHAPTER	TITLE	PAGE
	ACKNOWLEDGEMENT	
	ABSTRACT	iii
	TABLE OF CONTENT	v
	LIST OF FIGURE	viii
	LIST OF TABLE	x
1	INTRODUCTION	1
	1.1 Background of study	1
	1.2 Problem Statement	2
	1.3 Objectives	3
	1.4 Scope of Project	4
	1.5 Project Contribution	5

2	LITERATURE REVIEW	6
	2.1 Available Clothes Lines System	6
	2.2 Automated Clothes Lines System	7
	2.3 Power Supply	7
	2.4 Arduino Uno as the Microcontroller	8
	2.5 L293D H-Bridge	9
	2.6 DC Motor	10
	2.7 Capacitor	11
	2.8 Gear	12
	2.9 Jumper	13
	2.10 LED light	14
	2.11 Fishing Lines and Ball Type Pendulum	14
	2.12 Water Proof Cloth	15
	2.13 Water Sensor	16
	2.14 Motion Sensor	17
3	METHODOLOGY	18
	3.1 Hard Ware Design	18
	3.2 Flow Chart	20
4	RESULT AND DISCUSSION	21
	4.1 Result	21
	4.2 Discussion	25