

FAN GENERATOR

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ABSTRACT

The named of this project is Fan Generator. This simple project are built to generate the electricity by using the green energy which is wind energy. The have a few components that should provide in this project such as Alternating Current (AC) motor, the blade of fan and the rectifier also the LCD displays and the battery. The electrical energy is generate from the mechanical energy. The mechanical energy that means in here is the spinning of blade on the AC motor that will make magnetic field in the motor produce electricity. The AC motor were used have same structure with the AC Generator so it still can generate electricity. The amount of electricity that produce could be have loss compare to the generator because the AC motor through the process name regeneration. Furthermore, value of the electricity that will generate also depend on the fast of the blade spinning. The faster the wind through the blade and make the shaft of motor spinning, the more electricity were generated. As the project used the AC motor, so it need to use the rectifier to change from Alternating Current (AC) to Direct Current (DC). With the rectifier the LED can light up. The brightness of the LED can show that the brighter LED light up the higher current was generate. Also the battery also can function as placed to store charge. The LCD that were used in this project are to show the amount of voltage in volt unit and the current in milli ampere that contain in the battery that were store the charge. In a nutshell, this project is simple project that can build and used at home also it is a green project because it only used the natural energy which is wind energy and will not harm the surrounding.

TABLE OF CONTENTS

CHAPTER	TITLE	PAGE
	APPROVAL SHEET	
	CANDIDATE DECLARATION	I
	ACKNOWLEDGEMENT	iii
	ABSTRACT	iv
	TABLE OF CONTENTS	v
	LIST OF FIGURE	vi
	LIST OF TABLE	vii
1	INTRODUCTION	
	1.1 Background Study	2
	1.2 Introduction	3
	1.3 Objectives	3
	1.4 Problem Statements	4
	1.5 Scope Of Study	5
	1.6 Project contribution	5
2	LITERATURE REVIEW	
	2.1 Introduction	7
	2.1.1 A Cool Computer Fan Project (EFPU)	7
	2.2 Main Components	
	2.2.1 AC Motor	8
	2.2.2 Charge Controller	9
	2.2.3 Rectifier	10

	2.2.4 Battery	11
	2.2.5 LCD 16X2	12
	2.2.6 PIC 16F887A	13
	2.2.7 LED	14
	2.3 Summary	15
3	METHODOLOGY	
	3.1 Introduction	16
	3.2 Project Development	17
	3.3 Software	18
	3.4 Block Diagram	19
	3.5 Flowchart	20
4	RESULTS AND DISCUSSIONS	
	4.1 Result	22
	4.1.1 Result For Software and Source Code	22
	4.1.2 Result For Hardware and Prototype	26
	4.2 Discussion	32
5	CONCLUSION	
	5.1 Conclusion	36
	5.2 Recommendation	37
	Future Work	
6	PROJECT PLANNING	
	6.1 Gantt Chart 1	39
	6.2 Gantt Chart 2	40
7	REFERENCES	41