

MINI HYDROGENERATOR

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A project report submitted in partial fulfillment of the requirements for the award of the degree of Diploma of Electrical Engineering (Electronics / Telecommunications / Instrumentations / Computer)


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“I declare that this report entitled “*MINI HYDROGENERATOR*”
is the result of my own group research except as cited in the references. The report
has not been accepted for any degree and is not concurrently submitted in the
candidature of any other degree.”

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ABSTRACT

Nowadays, there are many technologies that have been created to make life being more beneficial and practical. Because of that, this useful device which is called “Mini Hydro Generator” is created. This device technology is included in home, category, but it also can be used in industry. Electrical energy from water turbine is a project about to generate electrical energy from the hydro energy. This project is using DC motor to generate an electrical energy. The DC motor will convert from water energy to electrical energy. After that, the energy will attach to the circuit charger and charge the battery. The electrical energy that store in the battery will connect with circuit alarm. These days, uncontrolled electricity usages in daily life become a common issue for the communities. So, the usage of energy must be used smartly because it is limited. Moreover, the device used to store energy from renewable sources is too expensive and the less fortunate cannot afford it. Next, the rate of theft among residential area is increasing. The purpose of this project is to create an alarm system that powered up by generator from water to reduce the electricity bill and to reduce the uncontrollable electricity usage. In addition, this project is to create water turbine using a stainless steel spoon to generate kinetic energy from the rotor part of the turbine. Besides, this project can create a battery charger to charge the 12V sealed lead acid battery to supply the security alarm circuit. As a conclusion, hopefully this project could be one of the technologies that useful for the people.

TABLE OF CONTENTS

CHAPTER	CONTENTS	PAGE
	DECLARATION	1-3
	DEDICATION	4
	ACKNOWLEDGEMENTS	5
	ABSTRACT	6
	ABSTRAK	7
	TABLE OF CONTENTS	8-10
	LIST OF TABLES	10
	LIST OF FIGURES	11-14
	LIST OF SYMBOLS	15
	LIST OF ABBREVIATIONS	15
	LIST OF APPENDICES	16
1	INTRODUCTION	17
	1.1 Background	18
	1.2 Objectives	19
	1.3 Scopes of project	20
	1.4 Limitation of Project	20
2	LITERATURE REVIEW	
	2.1 Literature Review	21-26
	2.2.1 Arduino UNO	27
	2.2.2 DC Step Down Module	27-28
	2.2.3 DC Step Up Module	28
	2.2.4 DC Motor	28-29