

CONTENTS

APPROVAL PAGE

ORIGINALITY STATEMENT

ABSTRACT	iv
-----------------	-----------

ACKNOLEDGMENT	v
----------------------	----------

Contents	viii
-----------------	-------------

List of Figures	x
------------------------	----------

List of Tables	xi
-----------------------	-----------

1 INTRODUCTION	1
-----------------------	----------

1.1 Background .....	.1
1.2 Problem Formulation .....	.2
1.3 Limitation of Problem .....	.2
1.4 Objective and Benefit .....	.3
1.5 Method of Research .....	.3
1.6 Writing Systematics .....	.3

2 BASIC CONCEPT	5
------------------------	----------

2.1 Internet of Things (IoT) .....	.5
2.2 Flood .....	.5
2.3 Microcontroller .....	.5
2.3.1 Arduino Uno .....	.6
2.4 Sensor .....	.8
2.4.1 Ultrasonic Sensor .....	.8
2.4.2 SRF08 Sensor .....	.10
2.4.3 VL53L0X Sensor .....	.11
2.4.4 IR INFRARED .....	.12

3 SYSTEM DESIGN	14
------------------------	-----------

3.1 Block Diagram14
-------------------------	-----

3.2	Prototype Design	15
3.3	Tool Design Procedures	16
3.3.1	Hardware Design	16
3.3.2	Software Design	16
3.3.3	Step Tool Testing	17
4	RESULT AND ANALYSIS	18
4.1	Calibration.....	18
4.2	Experiment.....	19
4.2.1	Clear Water	19
4.2.2	Mud Water.....	23
5	CONCLUSION AND SUGGESTION	28
5.1	Suggestion.....	28
5.1.1	suggestion for experiment	29
	Bibliography	30
	APPENDICES A	
	APPENDICES B	