

CHAPTER 1

INTRODUCTION

1.1 Background

At this day and age, there are so many transports on the road. It is because this transport is important to all people to go to other place easily. But, all of us know that the numbers of accident are increasing year by year. It is because of many reasons such as loss focus when driving, alcohol, road damage, not follow the rules, and others. These mistakes can be reduced by placing a sign board that make them more focus and more careful. It also can be placed at a road construction site because is dangerous to people go through it especially at night. Another phenomenon is nowadays a lot of roads at village are already upgraded. But, there is less warning sign board, and if there are many crook roads, it will be dangerous to the driver.

In this project, I will overcome all these problems to reduce the accident occur. Firstly, a warning street lamp will make the driver more focus when he/she use the certain road, which needs more attention. My project is portable, which is can be used if there are an under construction road, it can be placing at that road, and after the construction finished, this lamp can be remove easily. In the village, there is less warning sign board. So, it is useful because of this lamp use the solar panel, no need the electricity supply from the Tenaga Nasional Berhad (TNB).

Lastly, it useful to remind the driver when there is a crook road. This lamp can be adjusted to show the driver the left turn or right turn ahead. This system is very important especially at the dark road. With all features of this project, hope it can reduce the accident on the road.

1.2 Project Objective

The objectives of this project are:

- I. To develop a solar powered warning street lamp.
- II. To develop a battery charger.

1.3 Project Scope

There are several scopes of this project. The first scope of this project is to develop a portable solar powered warning street lamp. To achieve the objective of the project, the controller circuit must be developing.

The second scope of this project is to develop a battery charger. Battery charger is important because of to renew the energy of the battery.