

# **GO GREEN ROBOT**

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## **CHAPTER 1**

### **INTRODUCTION**

#### **1.1 Background of Study**

In this era, the technology is the most importance in order to increase the productivity of human live. This country is one of among the country that has tried to build their own technology robotic to give big impact for the economic growth.

Robotic can be regarded as a typical and representative part of Mechatronics, as cutting edge technology in this rapidly expanding research field [4]. The interest among the people of this country towards the use of robotic in daily life is increasing. Hence, from that situation an idea is obtained to design and develop a robot that is functioning to facilitate the people by pick up the dustbin and transfer it to the main dustbin. Thus, it will ensure the environment in office, factory, shopping mall and public area are always clean by pick up the dustbin at the right time. Therefore, the dustbin will not be full with rubbish and overflow. The type of robot that will be created is a Service Robot. The purpose of developing this robot is to serve human for making life easier and will also be built for delivery services in office environments and hospitals, cleaning or lawn mowing [1].