**CHAPTER I  
INTRODUCTION**

**I.1 Background**

Technology, its growth up so fast in the middle of the people until now. From the technology of industrial, business, storing, transaction and many else.Barcode is the one of technology that used to track assets in any building including desk, computer, telephone, etc. and can be help security guards to identify every employee, every door they enter (id card), and every room they work in (id card) and can be to identity the item in the shop, And many else.

Barcode is very useful to identity of an object that have a barcode in. With barcode, they can identify the product of the item, price of the items, id number of the object, and any else can be identity by using the barcode with note, the object have a barcode. In this paper, will be tell about linear barcode that use in daily life of the people circle life, and also tell about the symbols and types of linear barcode, the smartphone as scanner reader of linear barcode and implementation of linear barcode using smartphone device.

In this paper, the author will be talk about implementation linear barcode using smartphone device. Firstly we need to know what is barcode, the history of barcode, what is linear barcode, what is the hardware was support to implementing linear barcode, the symbologiest of linear barcode, the uses of symbologiest linear barcode, the software was affect in implementing linear barcode in smartphone device and something else about implementation linear barcode with smartphone device in this paper. The purpose of this paper is to telling about the implementation linear barcode using smartphone device, the software was affect it, and how its work.

**I.2 Writing Objective**

Main purpose of making this research paper is to introduce and explain to the reader about Intel Compute Stick (ICS), including:

1. Knowing the Definition of Barcode.
2. Knowing the History of Barcode.
3. Knowing the Definition of Linear Barcode .
4. Knowing the Symbologiest Of Linear Barcode.
5. Knowing about Barcode Scanner
6. Knowing the Architecture Linear Barcode.
7. Knowing the Requirement to implementing.
8. Knowing the Implementation Linear Barcode Using Android Smartphone.
9. Know the advantages and disadvantages of Implementing Linear Barcode Using Android Smartphone Device.
10. Understand with the conclusion and suggestion of the topic.

**I.3 Problem Domain**

1. What is the Barcode ?.
2. What is the Linear Barcode ?.
3. What is Symbologiest Of Linear Barcode ?.
4. What is the Barcode Scanner ?.
5. What is the Architecture Linear Barcode ?.
6. What is the Requirement to implementing Linear Barcode using Android Smartphone Device ?.
7. How It Works Of Implementing Linear Barcode ?
8. How To Install The Software For Implementing Linear Barcode
9. How about advantage and disadvantage of Implementing Linear Barcode Using Android Smartphone Device ?

**I.4 Writing Methodology**

The method used is the method of research with data collection techniques using observations from reliable media.

**I.5 Writing Framework**

This paper, divided into four chapters. Each chapter in this study are interconnected between chapters with chapter one another by systematic writing as follows:

**Chapter I Introduction**

This chapter was published about the background of the problem, writing objective, problem domain, writing methodology, writing framework.

**Chapter II Basic Theory**

This chapter contains definition of description about Barcode, History Of Barcode, Linear Barcode, Symbologiest Of Linear Barcode, Barcode Scanner and The Architecture Linear Barcode.

**Chapter III Problem Analysis**

It provides more explanation about The Requirements To Implementation Linear Barcode Using Android Smartphone Device, How Linear Barcode Works, How To Install The Software Of Implementation Linear Barcode, The Implementation Of Linear Barcode Using Android Smartphone Device, Advantages And Disadvantages Of Implementing Linear Barcode Using Android Smartphone Device.

**Chapter IV Conclusion and Suggestion**

This chapter contains a description of the conclusions and suggestions were given by the author which is derived from the author's thoughts about the topic.