**Chapter 3**

**Requirement Analysis**

**3.1 Functional Requirements**

The workstation for each robot arm consists of the following components:

* Arduino Board
* Motor
* Potentiometer

**3.2 Non-functional Requirements**

* Miniature Model
* Arduino IDE
  1. **Minimum Hardware/Software Requirements**
     1. **Hardware Requirements**
* Arduino Uno
* Futaba S3003 Servo motor (47kg torque) 5 units
* 5 potentiometers of 10kΩ
* 6v Battery Supply
* Connecting Wires (M-M) (M-F)
* USB Cable (type A to type B)
* Breadboard
* Communication port (COM port)
  + 1. **Software Requirements**
* Windows, Linux or Mac Operating System
* Arduino IDE