

ROBOTIC ARM

Prepared by: Gurdarshan Singh, Khoo Chun Tek, Gao Feng

ABSTRACT

This document is a project report of designing a robotic arm. The advantage of this project is it can produce some basic function that human arm capable of doing like twisting and gripping which is the first step into the robotic world. This project is a combination of hardware (motors & PCB board) and software (sample of programming task). Both hardware and software is very much related to each other to perform its motif according project aims.

From this document the basic function about function robotic arm is explained and relationship between each other is shown. Most of the information contain in this document is the basic of robotic arm that is applied in most robotic arm projects.

According to the name given to this project robotic arm should be a hardware base project, thus due to the unique function of letter writing the project software is equally important. In these report the method and consideration in designing robotic arm is explained and the problem that appear during the hardware implementation is stated.

The software of the project is where the function of the robotic arm is defined; in this case it should be letter writing and voice pronunciations. This document contains the basic information of how the signal is generated until the way the number is written and numbers pronunciation.

Finally the appendix of this report consists if the robotic arm information and the port control signal and followed by the voice IC information.