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HUMAN LESS ARM WITH BLUETOOTH MODULE

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EXTENDED ABSTRACT

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Abstract- In an industry, the lifting the things process were often applicable either to move the things or to arrange the things. However, problems often occur regarding to limit to human's body and time limitation. It's like human needed a lot of energy to do a heavy work and it will take a long time to finish one job. To overcome this problems, this group have think to build something that can reduce worker's energy and save their time. So, this group have thought to create a robotic arm that need less human energy and can save their time. The worker just need to set the robotic arm one time before use it and it will automatically run as they set. It also show them the number of the thing that it's move. So, this robotic arm really good for any lifting job and so on, because it can save time and energy.

INTRODUCTION

These days' people needed help form the machine to do work faster than usually. With the rapid increase in the flow of information, people are now guided to search for different markets and people have entered the competition to manufacture quality products cheaply. Automation systems are also needed to realize this. Because standardized automation systems are required to minimize errors as well as to have experienced and well-trained employees for quality products. Because of their physical characteristics, people needed to use auxiliary machines in places where their strength was not enough. These machines, which are operated with the need for human assistance in advance, have been made to operate spontaneously without the need of human power with the progress of technology. Although surgical robotics is in its infancy, the rapid proliferation of surgical systems attests to the fact that this technology is here to stay and that we urologists should brace ourselves for the next wave of technology that will yet again change the way we work. Many in practice are rather startled by the rapid insurgence of this sophisticated technology into the armamentarium of clinical practice. Many are overawed by the sophistication of the equipment that underlies the computer-enhanced technology that lurks "under the hood" of the da Vinci Surgical System (Intuitive Surgical, Sunnyvale, CA, USA). Yet one finds such suppositions are unfounded if one simply looks back on the steady progress leading to our current situation. This robotic arm also can reduce the risk in work. In every job there are always have some risks to make it done. So, when we use this robotic arm we can prevent the risk to worker.

This robotic arm have two function which is to lift the object and count it. The robotic arm can be controlled by gadget. The servomotor is preferred in order to be able to perform these operations properly since the motor to be selected must operate precisely and must be at high torque. The robot arm is composed of 4 servo motors and can move in 4 axis directions with these motors. This motor will help to lift up the box and to put it the other place. Every movement will count one by one and when its stop it will show the number for the object that it put.

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