

MOTION CONTROLLED ROBOTIC ARM

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ABSTRACT

Nowadays technology has decreased working hours and have made complicated operations more effortless. Robotics is a field that has thrown up some wonderful machines. Typical industrial robots do jobs that are difficult, dangerous or dull. They lift heavy objects, paint, handle chemicals, and perform assembly work. They perform the same job hour after hour, day after day with precision. They don't get tired and they don't make errors associated with fatigue and so are ideally suited to performing repetitive tasks. One of them is the 'scara' type of a robotic arm. This project aims to implement this robotic arm by interfacing it with motion sensors which makes the user interface comfortable. Though the use of a robotic arm is very simplified, the implementation of this arm requires a good knowledge of Engineering Mechanics, Electronics Devices and Embedded Systems as well.

KEYWORDS: Accelerometer, Servo Motor, Atmega-32 Microcontroller