

ROBOT MOVEMENT WITH PLC

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ABSTRACT

The title of my project is "Robot movement with PLC" which means using Programmable Logic Controller to program for the movement of my project. The aim of this project is designed a robot arm that program by PLC. The robot arm needs to turn clockwise and stop right above the load at the conveyor 1. Then it will grab the load and turn anticlockwise. Subsequently, it will release the load on the conveyor 2. Finally it will return to the initial position.

As we know that robot is a complex title and it will be one of the important resources that will used to replace human in those high risk job in the future. Nowadays, they are lot automated factories using robotic arm to carry out work due to its high efficiency and consistency in carried out their work. The production of the factory will be higher and it will be less human resources during the job carried out.

However, this topic will be more challenging while it will be involving programming, design circuit, design the robot arm, and also calculation to the motor. Hence, I will illustrate how I design my robot arm, program for PLC, circuit for reverse or forward the motor and the material I have been use for the project in this report. Those explanation and illustration will come with pictures to make things easier to understand.