

# THE DESIGN AND CONSTRUCTION OF A COMPUTER DRIVEN RACKING SYSTEM

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## ABSTRACT

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Nowadays, almost all the works can be done easily by using automation. It brings many benefits to our life especially at industrial area. There are many ways to build the automation system, like computer PLC (Programmable Logic Circuit) and others. In my project, I'm using computer to drive my system, by using control of the computer, you can know the entire process. All the works can be shown on the screen which bring safeness and comfortable to user.

My project is about the computer control racking system. I'll build a model of this system. It consists of hardware and software which includes electronics, mechanics and programming. This racking system is build by circuits, motor, belts and rack/ the role of the circuits here is to amplify the signal from the computer to the motor. This signal is able to rotate the motors. The motion of motors transmits power to belt to control the x, y, and z directions. It is under controlled of computer through parallel port by using visual basic.

Through the title, you can know that this system us under computer control, which can pick or put the items to or from the rack. The work can be doe easily just by clicking the windows icons. So to create a user friendly visual basic interface is needed.

In my project paper, I'll list down the details about my project. So the reader can know the actual work of my system just by reading through this report. Ultimately, I wish I can bring the best of mine to all of you. Thank you.