DESIGNING AUTOMATED SORTING MACHINE FOR ESCARGOT

By

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STATEMENT BY THE AUTHOR

I hereby declare that this submission is my own work and to the best of my knowledge, it contains no material previously published or written by another person, nor material which to a substantial extent has been accepted for the award of any other degree or diploma at any educational institution, except where due acknowledgement is made in the thesis.

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ABSTRACT

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The purpose of this thesis is to design and develop a prototype automatic sorting machine to sort the escargot based on the classification provided by PT. XYZ Sorting machines have been developed in the automation world to increase productivity and minimize errors during production. The vibrations generated by the eccentric shaft and the gap width in the sorting path are the main parts to separate the escargot in the sorting area. The eccentric drive shaft will use a DC motor controlled by using a pulse width modulation controller to minimize power loss on the motor.

Keywords: Automation, Sorting, Pulse Width Modulation, Eccentric, Escargot.

DEDICATION

I dedicate this thesis to my family, my advisor, co-advisor, PT. XYZ, and all my friends for their willingness to help and support to finish this thesis.

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