

**FACILITY LAYOUT DESIGN AND SIMULATION FOR PT. XYZ TO  
IMPROVE THE INVENTORY ACCURACY AND EFFICIENCY**

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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 neither 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

### FACILITY LAYOUT DESIGN AND SIMULATION FOR PT. XYZ TO IMPROVE THE INVENTORY ACCURACY AND EFFICIENCY

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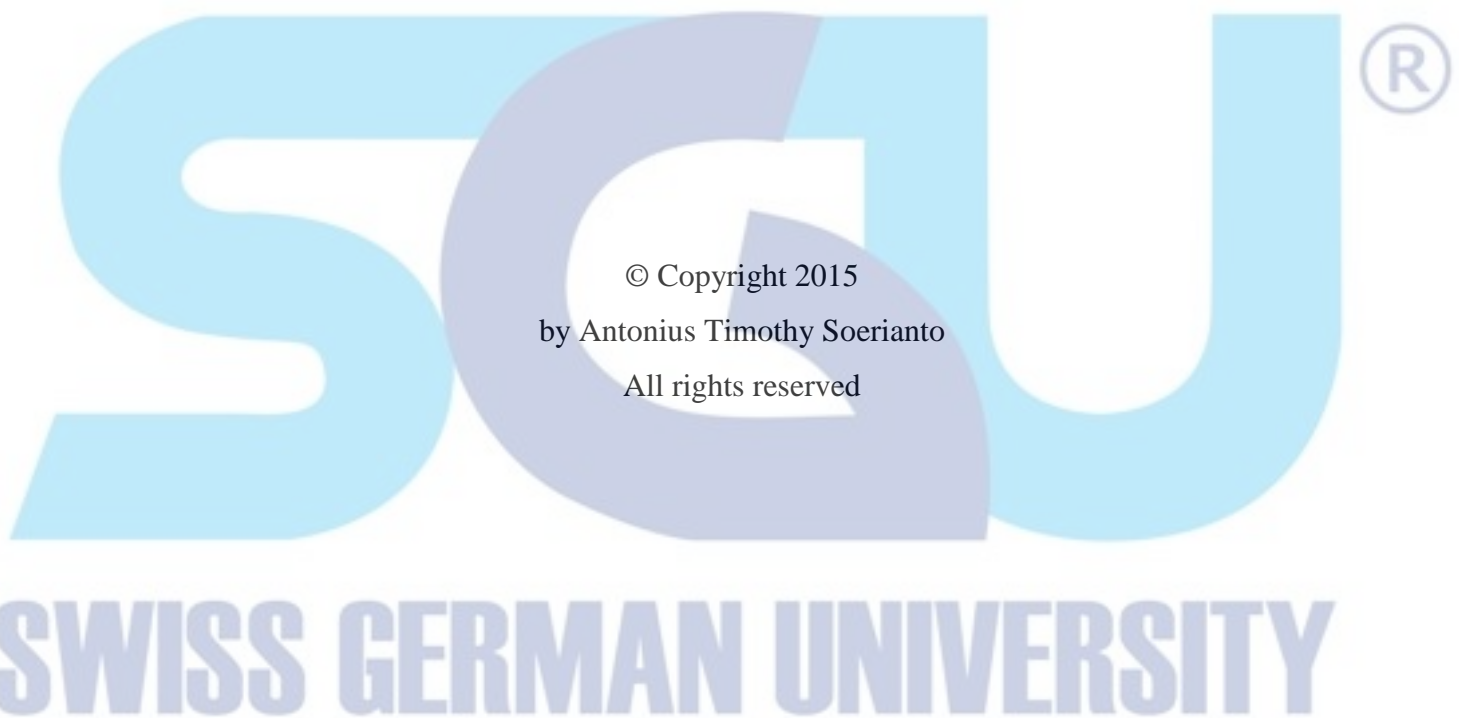
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Systematic Layout Planning (SLP) methodology has been used and learn several times to produce layout for manufacturing. In this case Systematic Layout Planning is used for a warehouse layout to improve productivity. Warehouse layout can be implemented using Systematic Layout Planning as a methodology. Several method of redesigning layout strategy have been used such as ABC warehousing layout. BPOM RI rules and regulation also put in consideration to the food and safety of warehousing. The aim of this study is to redesign warehouse layout to improve the efficiency of inbound and outbound logistic process. The result of the ABC analysis shows that two class A product that needs to be place near the exit of the warehouse. The class a products is the highest demand. The layout have been redesign through ABC Layout formats to make sure that the efficiency improved. The layout that give the best result will be chosen by PT. XYZas the outcome of the other layout.

*Keywords: Systematic Layout Planning, Warehouse layout, BPOM RI, Efficiency, Outbound Inbound Logistic, ABC Analysis*



## **DEDICATION**

I dedicate this works to my lovely family, IE 2011 Friends, Global Jaya International School Friends, for their support, constant helping hands, and companions.



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