

**SAFETY DESIGN IMPLEMENTATION ON FLEXIBLE MANUFACTURING
SYSTEM**

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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This thesis project is about designing and implementing IEC safety standard in the FMS Festo distribution station, FMS Festo testing station, and FMS Festo processing station. Implementing the IEC standard is also including in the program, wiring and communication design. To archive that purpose, the thesis work will be developed using SIMATIC S7-300. The problem that should be considered, is how to established the communication system between each station and how to make safety program with alarm notification and E-Stop recovery, for the operator that using the FMS station. In the end, this thesis work is successfully achieved when the communication between station and the sequence process with alarm notification and E-stop recovery is fulfilling the IEC standard

Keywords: FMS Festo Distribution station, FMS Festo Testing Station, FMS Festo Processing station, IEC standard



DEDICATION

I dedicate this thesis to my adviser, family and, friends who always support me.



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Thirdly, the author would like to express gratitude to his family for their support

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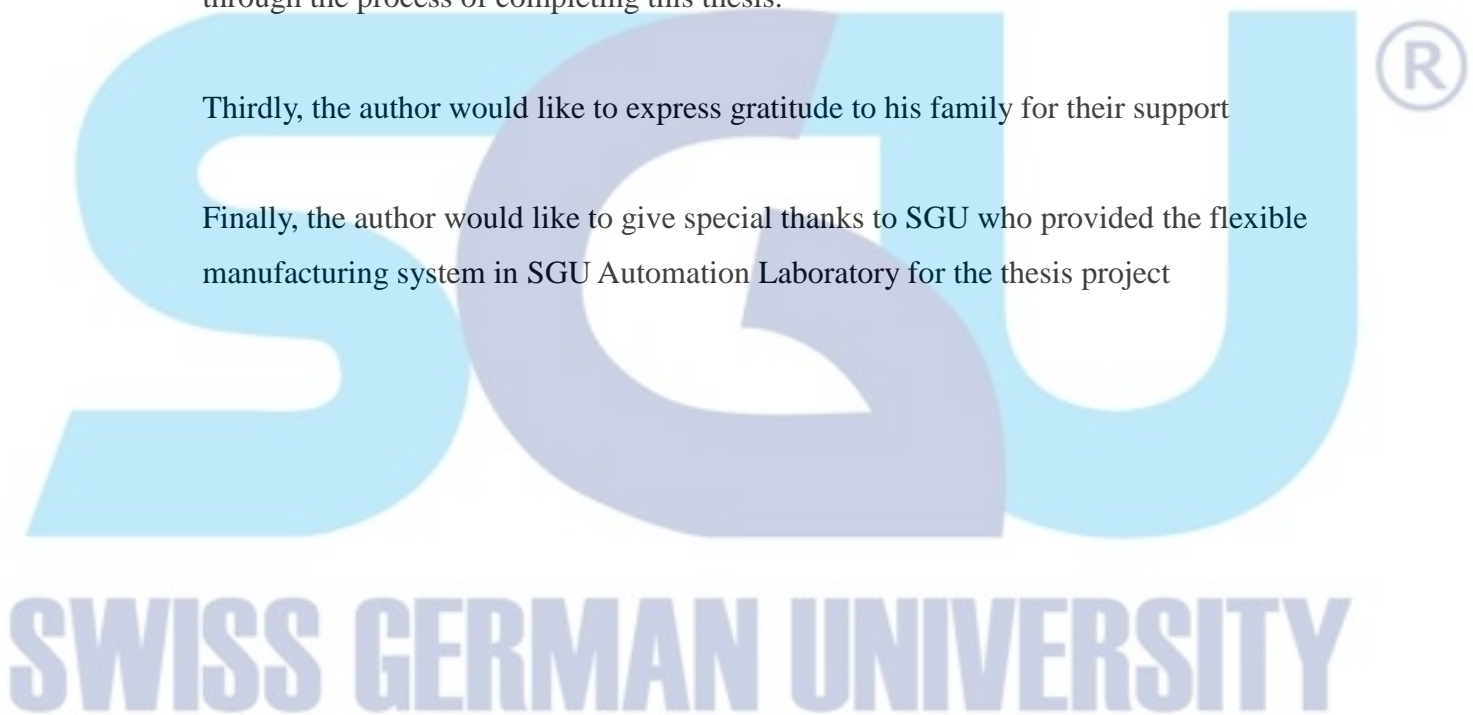


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