

**Design and Development of a Custom 3D Printer
Capable of Printing at 150mm/s**

By

Matthew Leopold
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SWISS GERMAN UNIVERSITY
The Prominence Tower
Jalan Jalur Sutera Barat No. 15, Alam Sutera
Tangerang, Banten 15143 - Indonesia

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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.

Matthew Leopold

Student

Date

Approved by:

Hartono, S.T., M.T.

Thesis Advisor

Date

Dr. Yunita Umniyati, S.Si., M.Sc.

Thesis Co-Advisor

Date

Dr. Maulahikmah Galinium, S.Kom., M.sc.

Dean

Date

Matthew Leopold

ABSTRACT

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By

Matthew Leopold

Hartono, S.T., M.T., Advisor

Dr. Yunita Umniyati, S.Si., M.Sc., Co-Advisor

SWISS GERMAN UNIVERSITY

The purpose of this thesis is Design and development of a Custom 3D Printer Capable of Printing at 150mm/s. This thesis will include the design considerations, calculations, fabrications, calibration and testing of a 3D Printer. It will delve into the necessary calibration required for a 3D Printer to work without any issues and give some comparison of Printing with and without calibrations.

Keywords: 3D Printer, Custom 3D Printer, Fused Deposition Modelling, 3D Printing.



DEDICATION

I dedicate this thesis work to myself, friends and family.



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I have found my coursework throughout the Curriculum and program to be stimulating and thoughtful, providing me with the tools with which to explore both past and present ideas and issues.



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