PRODUCT DESIGN OF LIGHTWEIGHT LIGHT TABLE

By

Shelfy Inderasari
11212034

BACHELOR'S DEGREE
in

INDUSTRIAL ENGINEERING
FACULTY OF ENGINEERING AND INFORMATION TECHNOLOGY

SWISS GERMAN UNIVERSITY
EduTown BSD City
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Revision after the Thesis Defense on 19th of July 2016

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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Thesis Co-Advisor Date

Dr. Ir. Gembong Baskoro, M.Sc.

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ABSTRACT

PRODUCT DESIGN OF
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By

Shelfy Inderasari
Ir. Paulus GL Sarwanawadya, MBA., Advisor
Ir. Triarti Saraswati, M. Eng., Co-Advisor

SWISS GERMAN UNIVERSITY

Over the years, artists have grown to choose digital art as the media they use to express themselves due to the practicality and less expenses, but despite the growing numbers of digital artists, traditional artists or people who draw on paper still exists, using art utensils and tools to aid them. The purpose of this research is to develop a product to be used by traditional artists that works as a tool to draw traditionally that is practical and affordable for these artists. A light table where light illuminates from the bottom of the table that is both lightweight and saves room while maintaining less cost than most other light tables. This research is product designing an existing product and developing it to better its predecessors. Using the methodology of Total Design, the development of the product will encompass the voice of the customers along with a design that will integrate the customer needs, referencing Quality Function Deployment to make a product that will cater to the needs of the end users

Keywords: Product Design, Quality Function Deployment, Light Table, Customer Needs, Total Design.

DEDICATION

I dedicate this work for the future of artists and my family

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I wish to thank my advisors and my family members for their support and patience in aiding me throughout this research. For prof. Paulus and his knowledge in product design and his patience has helped guide me towards the finishing of this research. My co. Advisor Prof. Triarti Saraswati for also guiding the completion of my thesis. My brother in-law Yudha Khosala in assisting me with the electrical components needed for the product, and my father Dwi Ananto for keeping me on high spirits from the beginning until the end. And last but not least, I would like to thank my friends to have always been cheering for me to finish this degree and had been by my side for when times are difficult.

My coursework throughout this curriculum has been challenging and has pushed me to think critically and be more thoughtful, all while providing with the needed tools to further my capabilities.

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