

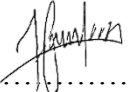


**DEVELOPMENT OF 3-DIMENSIONAL
HOLOGRAPHIC PROJECTION FOR LECTURE
PURPOSE**

**NURFATEHAH BINTI MD PAUZI
(2016666002)**

**BACHELOR OF MECHANICAL ENGINEERING
(MANUFACTURING) (HONS)
UNIVERSITI TEKNOLOGI MARA (UiTM)
JULY 2020**

“I declared that this thesis is the result of my own work except for the ideas and summaries which I have clarified their sources. The thesis has not been accepted for any degree and is not concurrently submitted in the candidature of any degree.”

Signed: 

Date: 30/7/2020

Nurfatehah Binti Md. Pauzi

UiTM No: 2016666002

“I declared that I read this thesis and in my point of view this thesis is qualified in term of scope and quality for the purpose of awarding the Bachelor of Engineering (Honours) Mechanical.”



SH MOHD FIRDAUS BIN SH ABDUL NASIR (IR)
Lecturer
FACULTY OF MECHANICAL ENGINEERING
UNI. TEKNOLOGI MARA (PULAU PINANG)
TEL:04-3823173
Email: sh.firdaus@ppinang.uitm.edu.my

Signed :

Date : 30/7/2020

Supervisor or Project Advisor

Ts. Ir. Sheikh Mohd Firdaus Bin Sheikh Abdul Nasir

Faculty of Mechanical Engineering

Universiti Teknologi MARA (UiTM)

13500 Permatang Pauh

Pulau Pinang

ACKNOWLEDGEMENT

Alhamdulillah, all praises to Allah SWT. With His permission, I am finally able to complete my Final Year Project. I would like to express my deepest appreciation to all those who have involved and provided me the possibility to complete this project. A special gratitude I would like to give to my beloved lecturer, Ir. Dr. Sheikh Mohd Firdaus Bin Sheikh Abdul Nasir, for his continuous and never-ending supports from the very beginning until the completion of this project. He is the one who always encourages me to finish my task on time to avoid any last-minute preparation. He also contributes in stimulating suggestions and encouragement that helped me to coordinate my project well. The on-going advices that he has given me will always remain in my heart and I will keep it as a guidance in the future for completion of project later.

I would like to thank Faculty of Mechanical Engineering UiTM and Universiti Teknologi Mara for given opportunity in completing my degree and the sufficient machinery and tools that facility provided. I appreciate the generous financial support provided by Jabatan Perkhidmatan Awam (JPA) for enrolling me in their program, Program Ijazah dalam Negara (PIDN). Special appreciation goes to my best of friends, Syadiyahatul Qistina, Muhammad Naqib, Nurul Atiqah Abdul Halim, Alyaa Zamri, Dirissfatt, and my housemates who selflessly helped me in dire times and gave motivational supports throughout my journey in completing my thesis. Not to forget, to my parents for their loving supports and for being my major reason to keep going. The list of names of whom deserves appreciations are unjust yet for the bottom of my heart, I thank you all.

ABSTRACT

The current method of distant learning is using 2-D means of communication which is via texts and calls, and even most advance is through webinar are highly sought after means of transferring knowledge. This is due to the current condition of the world which is movement towards Society 5.0 and is more needed in 2020 where the whole world was in lockdown due to pandemic Covid-19. Online learning, although helps in transferring knowledge despite the distance barrier, has lost a crucial sense of human touch, which is especially needed for courses that requires human face-to-face teaching. 3-Dimensional Holographic fabrication represent a strategy for addressing solution to this issues. 3-Dimensional Holographic Projection Technology were analyzed and its knowledge had been organized according to its key element, which the core concept, components involved and parameter measured. The experiment was executed to determine most optimal luminance value, using a particular value of optical arrangement and video settings under four different conditions.