# **DECLARATION**

I declare that this is my original work and has not been submitted to any other campus, college or university for the award of certificate, diploma, degree or any other award.

NAME: **GATERO AMOS GICHUHI**

REG NO: **COM/0020/13**

Signature……………………… Date: …………………………….

# **APPROVAL**

This project was done and presented by me before the panel concerned on the 12th January 2017 at Masinde Muliro University of Science and Technology with my approval and that of my supervisor Mr. Jasper Ondulo.

NAME: **MR. JASPER ONDULO**

Signature…………………………………… Date……………………………..

Computer Science Department

Masinde Muliro University of Science and Technology

# **DEDICATION**

I would like to dedicate this work to my family, friends, lecturers and everyone who has been by my side for the encouragement and their support.

# **ACKNOWLEDGEMENT**

First and foremost I would like to thank God for giving me the strength and will throughout my academic life and for giving me the gift of life.

I thank all the various people who contributed to the success of the development and completion of this project. My supervisorMr. Jasper Onduloforhis continued efforts, guidance and support concerning the process of developing a better system. My fellow classmates and friends for their warm support and advice during the development. And finally, my parents, for their dedication and support during the development period of my project.

**ABSTRACT**

Data encryption for secure storage and transfer is a project done to address the many insecurities which we encounter while sharing important and sensitive data including videos, images and files through the internet by ensuring all that data is secured before being shared across the internet.

The main purpose of this project is to develop an offline encryption application whereby after encrypting the data, the sender can send the encrypted data to the receiver who he/she has shared the key with.

This project will make use of Advanced Encryption Algorithm (AES) due to its strong key encryption key and its efficiency to both hardware and software which makes it strong and favorable.

This will be able to protect files and data from cyber-attacks like eavesdropping.

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