**DECLARATION**

I hereby declare that all information in this paper has been obtained and presented in accord with scholarly policy and standards. As required by these policy and standards, I have fully written this report based on truth and cited all activities and duties that I undertook while on attachment. I therefore declare that this article is free of plagiarism. Any other copy presented elsewhere without credit to the author shall be defamed plagiarized, null and void.

 Author: **ODHIAMBO VICTOR OWINO**

Reg No: **COM/042/ 16**

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

**Supervisor’s/Lecturer’s Approval**

This industrial attachment report has been submitted to the department of mathematics and computer science for an award of a degree in BSc. Computer science with my approval as university supervisor.

**Dr. Julius Kogo**

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

Stamp: ------------------------------------

Department of mathematics and Computer science,

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**Industrial Assessor from institution**

DR.MUSEMBI

Lecturer

University of Eldoret, department of computer science

DATE………………………..

Sign…………………………..

**ACKNOWLEDGEMENT**

This attachment was successful due to the cooperation and support of a number of people, who have enabled me gain much more during my industrial training period.

First, I extend my gratitude to all my family members for their support and words of encouragement that they gave me. Special thanks to my mom Iddah Mwai and Velma Owino for the support that they gave me both financially and spiritually. Their constant prayers and well wishes gave me courage to tackle every task in life with hopes of success.

Second and worth mentioning is the invaluable support and guidance I constantly got throughout my training at Easy Broadband. I express my gratitude to the technical team, through them I learnt to embrace teamwork and sharing of knowledge. Special gratitude to my industrial supervisor Mr. Emmanuel Ireri for his remarkable guidance, constructive critics and relevant suggestions throughout my training.

Much thanks to the department of mathematics and computer science. Most importantly to Dr. Julius Kogo: my university supervisor for the constant communication, corporation and supervision of this mandatory industrial attachment programme.

I thank the Almighty God for divine protection, opportunity and guidance that He gave to me during my industrial attachment training period at Easy Broadband.

**DEDICATION**

I would like to dedicate this training report to my parents, beloved friends and to my supervisor Dr. Kogo of University of Eldoret, department of mathematics and computer science for the continuous support and guidance they gave me during the training period at EASY BROSDBAND.

**ABSTRACT**

The purpose of this industrial attachment was to create a clear picture of what have been doing, in the form of a report. This field of attachment was a field of practical training experience that prepared me, for experience that prepared me, for the tasks that am expected to perform on completion of my training or after completion of my course of study.

This report contains information which I gathered during my industrial training at EASY BROADBAND for a period of three months. My involvement in this attachment was to make sure that, I acquire new knowledge and practical skills, improving my confidence in problem solving and to utilize the opportunity to relate with different class of people likely to be encountered in factual life situations.

This report gives all the activities I undertook at the company (*easy broadband*), the experience I gained, the practical skills I acquired and the personal inputs to the organization. This report also shows the benefits, success, challenges, and finally, it depicts my reference and the deductions as from the industrial attachment experience.

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**LIST OF ABREVIATION**

* **OLT**-optical line terminal
* **OTDR**-optical time domain reflectometer
* **SPL**-splitter
* **ISP**-internet service provider
* **CTO**-chief technical officer
* **ONU**-optical network unit
* UTP-unshielded twisted pair
* **ODP**-optical distribition point
* **FOSC**-fiber optic splice closure
* **FOST**- fiber optic splice tray