

**ATTACHMENT REPORT.**

**NAME : DISMAS KIPLETING.**

**REG NO. BSCS/2017/41992.**

**DEPARTMENT : ICT DEPARTMENT**

**SUPERVISOR : MR. EDWIN SEREM**

**DURATION : 3 MONTHS**

**COMMENCED : 12TH FEBRUARY 2020.**

**COMPLETED : 14TH APRILL 2020**

**ORGANIZATION: NANDI COUNTY ASSEMBLY.**

**DECLARATION**

I, Dismas kipleting, hereby declare that this training report is my original work and has not been submitted before for any academic award either in this or other institutions of higher learning for academic publication or any other purpose. The references used here from other journals or materials are indicated in the references section.

Name: Dismas kipleting.

Signature………………………. Date………………….

**AKNOWLEDGEMENT**

First, I want to thank the Almighty God for bringing me this far and keeping me sound and safe with good life during the entire field attachment period.

The development of this report took the effort, support and guidance of a number of people whom I wish to thank. I am grateful to my course COD Mr. Neyole misiku for his guidance and constructive criticisms. I also wish to pay tribute to my attachment field supervisor, Mr. Edwin Serem who edited my submitted copies and guided me on ways of improving my skills in gathering news and writing better feature stories.

I also thank my mother whose moral and financial support has remained unrelenting, dear friends and colleagues whose motivations during the field attachment kept me moving. I cannot end this list without paying tribute to the entire Umma University Lecturers particularly those from the department of Business and Technology for their constructive training and the knowledge they have imparted in me throughout the three years training. May God bless you all.

**DEDICATION**

I wish to dedicate this work to my lecturers for their continuous guidance , my mother whose moral and financial support has remained unrelenting and my brothers and colleagues.

**ABSTRACT**

The purpose of this report is to provide the details of the institution of attachment, a description of all the activities undertaken during the attachment period, the lessons learnt and challenges faced during the same. The need to conglomerate the modern technology has transformed the world.

This project which contributed to part of the above allowed me to acquire the vast knowledge in the technological world including solving the challenges.

**CHAPTER ONE**

**1.0 INTRODUCTION**

This process process of Industrial Attachment is part of the course work and was introduced to inspire the students with practical and technical skills, as a partial fulfillment for the award of a Certificate, Diploma or a Degree and to introduce the students into working life. The training time allows the students to link the theoretical principles learnt in the higher learning institutions and the real life professional and technical application.

It gives the students the practical skills and the work environment philosophy, to use their skills and principles learned in class to serve the institutions and the society in general.

Umma University has therefore organized 12 weeks of training in any institution of students’ choice to give every student an opportunity to apply the skills and knowledge achieved during the course of study and to acquire new skills in managing relationship and carrying out the jobs assigned.

Due to that reason, I have joined Nandi County Assembly to be trained in order to get practical skills and cut a niche for myself in the ICT society.

**1.1 PURPOSE**

The industrial attachment program fulfills part of the requirement for the award of a Bachelor’s Degree in Computer Science at Umma University and majorly networking field.

This report therefore provides a summary of the activities and duties carried out, as well as experience gained during my attachment period.

**1.2 SCOPE AND LIMITATION**

The training is all round and not limited to networking and security. The field activities though covers a limited geographical scope with a major focus on County Assembly there are many departments in which my practical application revolved.

However, computer science as a course is very wide and deep and as much as I engaged those activities in this organization, most of the skill that I was taught in class were not covered.

The time allocated for this activity also becomes a very big challenge as it does not allow full application of concepts

**1.3. Description of Nandi County Assembly.**

The quest for a devolved system of governance in Kenya popularly referred to, as ‘ugatuzi’ has been a longstanding one. The promulgation of the Constitution of Kenya 2010 (CoK 2010) on 27 August 2010 paved way for realization of the “dream” system of governance.Chapter Eleven (CAP 11) of CoK 2010 – Devolved Government specifically provides for the setting up of the County Governments.

With regard to this, Nandi County Assembly was one of the component developed to perform many roles as dictated by this constitution(2010). With many roles guaranteed many departments were developed to help in running this organizations. Those departments includes Registry, ICT, Hansard, Human Resource Transport and others.

Together with those departments, there are many offices including the office the Clerk, Speaker, Deputy Speaker, Sargent-at-Arm,chambers and others.

**1.3.2. Main Functions**

Like any other organization, The Nandi County Assembly prides itself of living to its dreams which include;

**i. To inform**

The organization has continuously updated the residents of Nandi through various medias like YouTube, Facebook including the website.

**ii. To educate**

Through its several products, the house has educative protocols aimed at enlightening its mass audience. For instance, speaker has an array of order which members and ordinary people should know and follow. Also, various departments has many resources and duties which are helpful to trainees.

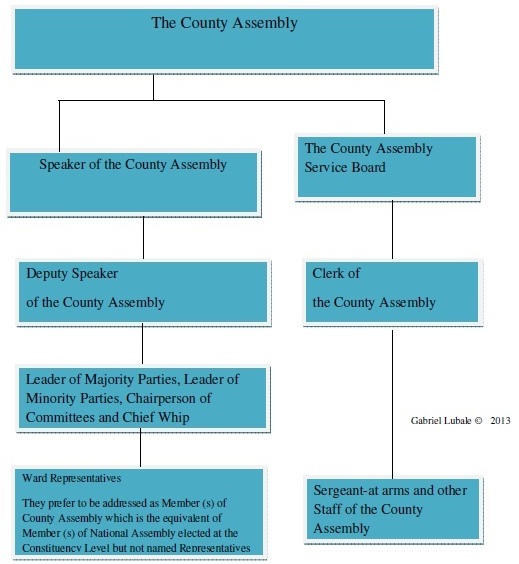
**iii. To agenda set**

Through its editorial and other articles, The Nandi County Assembly, like any other law formation agent, has continuously set agenda for the nation. For instance, when there is a corruption case, those in ICT department ensures that the community in aware. All these are achieved through reporting, publishing and broadcasting relevant and timely content through the multimedia platforms like YouTube and others.

**1.3.3. Mission, Vision and mandate**

**Mandate:** over-sight of the county functions and legislative.

**1.3.4. Organizational structure**

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**CHAPTER TWO**

**2.0 TRAINING, RESEARCH AND IMPLEMENTATION**

**2.1. Major activities involved**

Being have been a technician whose main job was to make sure that ICT related services are always available and reliable.I used to engage in the activities like laying of network cables and maintainance, monitor the efficiency of the network,updating software's and performing any other duty as assigned by the immediate supervisor. These are the duties:

1. **Installation and maintainance of network cable.**

With the help and guidance of my supervisor, i could lay network cables and at the same time clipping those cables to facilitate connection. When those cables or network access devices had issues, that was my responsibility to make sure that, if it is cable we either replace the entire cable or just repair or if it is a wirelless access point repair, reconfigure or replace the gadget.

1. **Reliability of network and its reliability check.**

Checking network performance and reliability using commands like ping, tracert, ipconfig/release and others. Besides this, network connection were among the responsibilities that is, right from the dish outside to router all the way to the way to the server. Laying and trunking of network cables together with clippings them and checking patch panel sett-up were among the technical responsibilities.

1. **Hardware maintainance and configuration.**

This involved many activities ranging from one device to another that is printers,pcs, cameras and others. The activities includes print sharing, file sharing and adding users to the domain were the activities I engaged. Client storage and server storage are also the new skills learned through the session.

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1. **IT Related Duties and Operation of the Department.**

There are some duties like filing of KRA returns,renewal of driving licence for the workers. Other duties relating to the operation of the department is like airing the proceedings of the debates through through youtube and facebook .

1. **Installation,updating and configuring of softwares**

Installation and configuration of livestreaming programs like xsplit and connecting the gadgets required for livestreaming. Other programs includes the the operating system, microsoft tools and updating the drivers.

**2.3. Lessons learnt/skills acquired**

During the three month period I managed to acquire several skills which are pertinent to the current technology field survival in the competitive industry.

For one to be able to execute some of the assignment perfectly they must be able to learn some of these skills.

Skills learnt include;

1. Configuration and Server management skills.
2. Website development and updating skills.
3. Video capturing and editing skills.
4. Public address management skills.
5. Editing, archiving and retreaving multimedia resources skills
6. Maintaining and upgrading multimedia equipment and software skills.
7. Hardware maintainance and configuration skills.
8. Network maintainance skills.

**2.4. Challenges faced**

As a young aspiring scientist, full of energy and the urge to adventure, my stay at the Nandi County Assembly did not go short of challenges and as always, troubles never come singly. One challenge may have yielded another challenge.

2.4.1 **Inadequate resources.**

To fully get the experience that the technological field needs, it needs many resources to make sure each every section is not left behind. In fact, to be more specific, resource to equip me with the skill in the field of network and security were not enough.

 2.4.2 **Inadequate time.**

The fact that the entire attachment process takes a duration of only three months and many things has to be done was a very big challenge.

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**2.4.3 Slow Internet Connection**

Many users in the organization led slow internet connection. This therefore resulted to livestreaming challenges together with the fact that I could not learn easily from the internet considering the fact it is source of many skill.

**2.5. How I overcame the challenges**

Challenges just like any other day are things to be overcome. Having in mind that I have to cut a niche for myself in the computer science profession, I knew what I wanted and I had to go for it. I had to fight tooth and nail to ensure that my professionalism is not compromised by doing the following;

1. Waking up very early in the morning to make sure that I get enough time to finish the daily activities.
2. With the internet connection challenge I could just save the recordings until when internet becomes stable then I upload to the media.
3. With the resources challenge, made sure that I utilized the ones available and also provided some to be used, like lending my laptop to be used by some of the fellows in the department when doing some serious duties.

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**2.6 Reflection on personal development during the field attachment.**

I set up goals during my attachment, to develop and improve areas that I find needed to be improved. The working areas I developed and improved in during my 12 weeks attachment period are the following:

**2.6.1 Work effectively**

My main focus was how to work effectively. I have achieved this during my attachment period by working and using a to-do list and a diary. The to-do-list existed of work that needed to be done first and had more priority than other daily tasks while the diary consisted of the tasks done and those pending to be done in future.

** 2.6.2 Work precisely**

To be a skilled computer scientist, I thought of the need to work precisely. At the beginning of my attachment, I noticed that I was not able to do many things ranging from server configuration to video capture and editing. By the conclusion of my attachment, I have improved in this areas by practicing a lot.

**2.6.3 Respect.**

In the department, there several guys working there including other attachees,without respect I could have not successfully finished my attachment.

**2.6.4 Perseverance.**

A lot of work that needed to finished in time and limited skills in some areas was very big challenge. I therefore persevered all this and thereafter learnt to perservere difficult situations.

**Conclusion**

The skills acquired through out this session have prepared me to face the real challenges in the field of technology. With handwork and determination I have achieved what I have been wishing through the help of my supervisor.

Nandi County Assembly provides a chance for training young, energetic computer scientists to practice their skills by giving them full opportunity and a better background to work in the computer technology field.