



# [ATTACHMENT REPORT]

PA106/G/8788/20

**BACHELOR OF SCIENCE IN SOFTWARE ENGINEERING**

**SCHOOL OF PURE AND APPLIED SCIENCES**

**INDUSTRIAL ATTACHMENT REPORT**



**COMPANY: KIRINYAGA COUNTY GOVERNMENT**

**SUPERVISOR: KENNEDY MUCHIRI GICHOB**

**SUPERVISOR NO: 0711667728**

**DURATION: 12 WEEKS**

**FROM: 8<sup>th</sup> MAY 2023**

**TO: 28<sup>th</sup> JULY 2023**

**KAMOKO ERICK WACHUMA**

**PA106/G/8788/20**

**SUBMITTED ON 5<sup>th</sup> August**

## **DECLARATION**

I, Kamoko Erick, do hereby declare that the work presented in this attachment report on KIRINYAGA COUNTY GOVERNMENT (ministry of transport) is my own original and independent work after the completion of twelve weeks work.

The report has not been presented before to the department of Pure and Applied Sciences for the award of Bachelor of Science in Software Engineering. No part of this report shall therefore be duplicated without my prior consent and that of the Organization.

SIGNATURE: ..... DATE: .....

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## **ACKNOWLEDGEMENT**

Firstly, I would like thank my supervisor at the ICT department of Kirinyaga County Government, Kennedy Muchiri, for his dedication in equipping me with necessary knowledge and for their immeasurable support.

This attachment would not have been a success without the cooperation and support of the ICT department who enabled me to gain much more than what the industrial aspects of the attachment could have given.

Furthermore, appreciation also goes to the department of Pure and Applied for guiding us on how to conduct ourselves during the attachment period and ensuring that we have an opportunity to take attachment and ensuring we are insured during the whole attachment period.

I wish to acknowledge the entire Kirinyaga County Government fraternity for guiding and supporting me to gain experience in several fields and making the working environment conducive and friendly. Gratitude for having me.

I would also like to extend my special regards to my entire family for their constant encouragements and advice. I would like to thank my loving parents their support throughout the entire period of my attachment.

To crown it all, I wish to register my profound gratitude goes to The Almighty Father for making it all possible.

## **EXECUTIVE SUMMARY**

This is an attachment report, undertaken by Erick Kamoko at the Kirinyaga County Government Organization. The attachment period started from 8<sup>th</sup> May to 28<sup>th</sup> July ,2023.

This report is compiled in partial fulfilment of Bachelor science (Software Engineering) Degree at Kirinyaga University and it serves to provide an overview of what I learnt during the attachment period at Kirinyaga County for the 12-week training.

The time with Kirinyaga County Government has really illuminated my knowledge and understanding of practical experience of theories being taught between the walls of the University lecture halls and in corporate environment.

The purpose of the attachment is to prepare me to serve the needs of industry and information technology more effectively upon graduation.

These included providing real life experience and exposure, thus gaining first-hand exposure of working in real world, granting the opportunity to learn more about the intern self-potentials and abilities, getting connected and developing professional network.

The attachment has allowed me to harness the skill, knowledge and theoretical practice I learnt in class and enabling them to transform theory into real-life situations.

The sources used in writing this report includes; observations of underwriting materials that has been carried out by the company and reading from internet. The report gives a brief description of the history of the company and the functions performed. Organization's hierarchy structure and brief introduction of ICT department is well outlined. The duties that were assigned to the student and the knowledge and skills that were acquired are explained to detail.

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# **CHAPTER 1:INTRODUCTION**

## **Organizational Profile.**

### **Mission**

To foster sustained productivity through effective and efficient use of available resources by encouraging investment, tourism and agricultural productivity to improve the living standards of the people in a clean, secure and sustainable environment.

### **Vision**

To be a county enjoying improved productivity through maximum realization of its potentials for sustained economic, social and political development.

### **Geographical location**

The office is located in Kirinyaga county, Mwea constituency in Nyangati ward at kutus town near Alber School. It is about 1 km from Kutus-Embu highway.



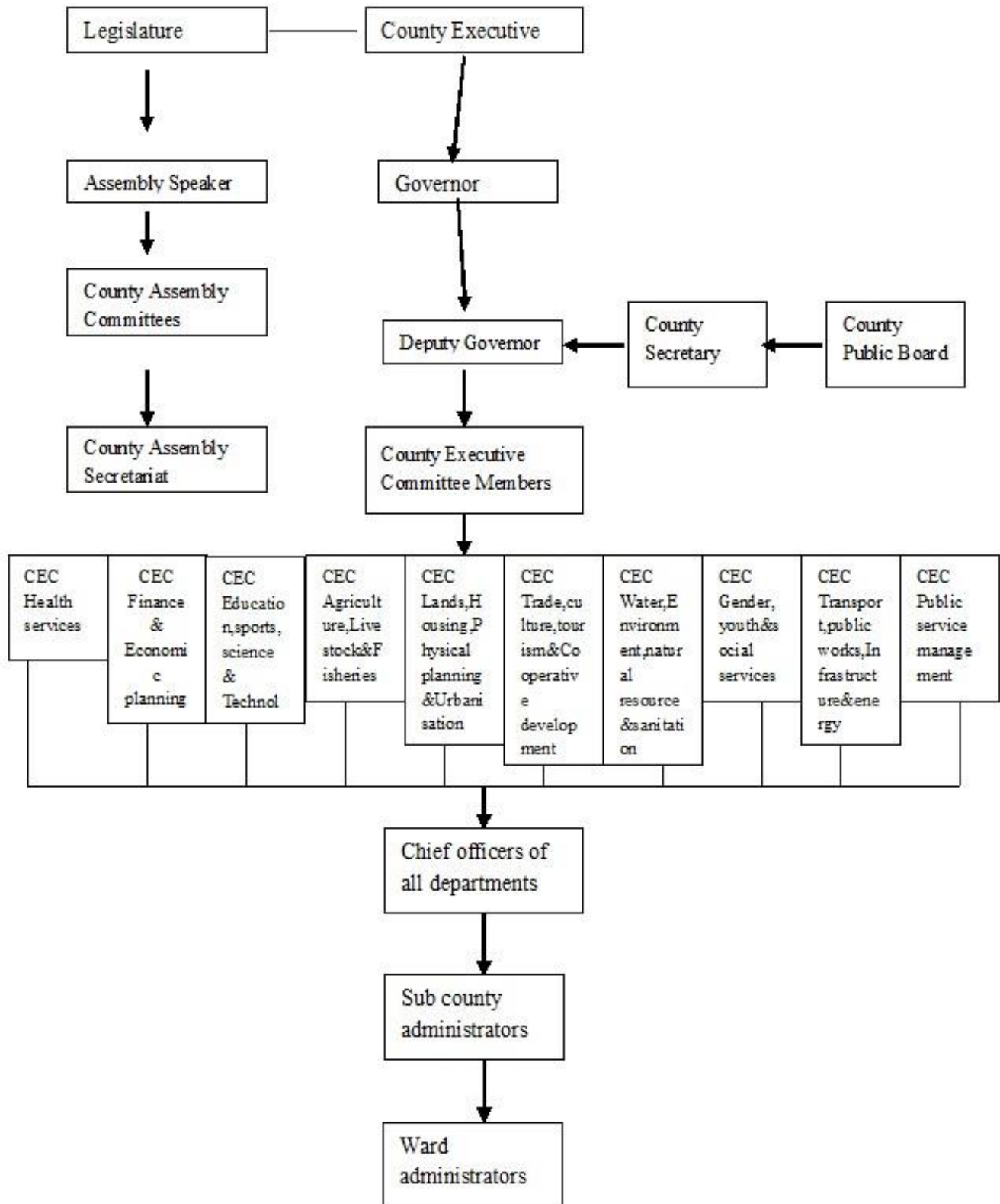
## **Historical background**

Kirinyaga County is among the 47 counties that were established under article 176 of the Kenyan constitution and the first schedule to the constitution of Kenya 2010. Its name originates from the original name of Mount Kenya, which originally was referred to as Kirinyaga which signified the crest of the whiteness as well as the snow-capped peaks of the mountain. Kirinyaga is covered by the county totals of 1478 square kilometers and surrounded by three counties namely Nyeri, Murang'a and Embu. The county has four constituencies namely Mwea, Ndia, Kirinyaga Central and Gichugu. It has 20 Wards in total. The county has several people as Kikuyu who practice small scale farming in different types of crops. Rice irrigation is commonly grown in this county at large.

The county has ten departments:

- i. Lands, Physical planning and housing
- ii. Environment and Natural resources.
- iii. Education and Public Service
- iv. Transport and Public works
- v. Agriculture and livestock
- vi. Health and Sanitation
- vii. Finance and ICT
- viii. Gender and culture
- ix. Youth and Sport
- x. Trade and Cooperative

## Organizational Structure



## **ICT Department**

The Kirinyaga County ICT department comprises of highly skilled employees who are determined to do their work diligently to improve the performance of the entire organization.

### **Key functions in the ICT Department**

The main focus of the division is the provision of Kirinyaga County information systems which will support decision-making in Kirinyaga County government and delivery of government services in terms of efficiency and effectiveness.

## **Main objective for the attachment exercise**

- To assess the interest of the student in the occupation he/she plans to undertake.
- To expose the students to work methods not taught in the University and to provide access to products equipment not normally available in the environment of the University.
- To provide the students with an opportunity to apply knowledge in real work situation thereby closing the gap between class work and the actual practice.
- To make the transition from school to the world of work smoothly and to enhance student contacts for job placement.
- To link industry and training institutions for placement of students at the work place for acquisition of practical skills and appropriate work ethics before entering the labor markets.
- To enlist and strengthen employers' involvement in institutional activities and in the entire educational process of preparing the students for employment in industry.
- To enhance industry's satisfaction with the graduate of the faculty in particular and the University at large.

## **Assigned routine duties and department's participation**

- Troubleshoot the network system if there is a Network failure or no access to the internet.
- Repair both hardware and Software if there is a break down in one of the staffs PC.
- Installation of antivirus software (Kaspersky Anti-virus 6.0) and updating it
- Installation of Operating system (Windows 7).
- Installation of Microsoft Office application program
- Data entry
- Crimping Ethernet cables
- Configuring Ethernet cables connections
- Replacing cartridges on printers

## **Success and failures of the attachment**

- Understood the main activities carried in an organization.
- Enhanced to apply theoretical knowledge into practice
- Enhanced confidence in problem solving and interpersonal relations.
- Exposure to the demands and challenges of the organization.
- Acquisition of new knowledge and practical in ICT department
- Understanding of the inner workings of technological and electronic devices  
for example the printer.
- Opportunities to relate to different categories of people likely to meet in real  
institutions

## **Skills attained**

- Office etiquette and how to interact with people at work place
- Understand the impact of Information Technology in Organizations.
- To understand the application of Information Technology in Organizations.
- Learn on how to handle data and secure it from loss.
- Learn networking and interact with different network devices and computer maintenance.
- To understand the current trends in the Business environment and how to cope with them.
- To understand the roles played by Information Technology in organizations
- Development for professional work habits and skills.
- To gain more skills concerning technological issue.
- Advanced knowledge on Servers, IP Switches and routers; their configuration and use
- Good rapport and confidence in communication with the staff
- How to be responsible
- Importance of teamwork and cooperation
- Crimping CAT 6 cable with RJ45

## CHAPTER TWO: CHALLENGES ENCOUNTERED AND PROBLEM FACED

- Limited access to Kirinyaga County Government system; The confidentiality and controlled access of the system through administration and access password for login limited the practice of the concept covered during the industrial attachment.
- Correctly configuring network devices. The curriculum had only one mass practical session on networking limiting my knowledge and capabilities in this area
- Limited period for training on the activities done by the company
- The University training program was rather more theoretical hence when confronted with these tasks it was quite difficult to explain the expected outcomes. Most concepts were exhaustively discussed in class but not experimented.  
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- Hardware installation. This was a challenge at first especially configuring a hard disk using jumpers of which I later got to know the jumper technology works to setting up master and slave drives for boot up.



## **CHAPTER THREE:     RECOMMENDATIONS AND SUGGESTED IMPROVEMENTS**

I recommend that computer fundamentals should be extended in practical to capture computer peripherals and give students prior experience with computer peripherals.

I also recommend the faculty to buy more equipment for practical for the computer information students which includes printers and switches.

I recommend Kirinyaga university to enhance more interaction to computer hardware devices to enable more understanding of technology.

Giving students ample time to seek for attachment places prior to the commencement date in the school's calendar.

Directly seeking attachment places for students or recommending students to attachment places.

Guiding the students comprehensively about the attachment prior to its commencement.

Finally, I recommend more access to technological equipment such as the server, switches to increase more technical skills.

## **CHAPTER FOUR:**

## **CONCLUSIONS**

The attachment responsibilities focused majorly on hardware, software and networking. The work was highly relevant to the field of study in Software Engineering as it includes all computer aspects.

During the period of attachment, valuable knowledge was gained through active participation and inquisitive learning. Knowledge on how to handle hardware devices for example repair, cleaning and maintenance was acquired.

## **APPENDICES**

### **References**

Industrial attachment logbook.

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