

Koros Emmanuel Kipsang

Tel: +254702782956 / +254753560289

Email: emmanuelkoros2@gmail.com

PROFESSIONAL PROFILE

A confident and pro-active individual with knowledge in geospatial information system. I believe in teamwork as well as treasure using the set goals to gauge my level of success and career development. I am a hard of hearing person who is very flexible and able to work well under all normal situations. I am also result driven with exceptional communication and interpersonal skills.

CAREER OBJECTIVE

To enhance a culture of excellence giving all I can in every working position I get involved in, always ready and willing to learn and continually building responsible and accountable personalities whenever I find myself.

To become a hardworking and committed employee and ensure continuous generation of outstanding results based on the responsibilities entrusted on me.

To enhance teamwork and cooperate with other employees to bring success to the organization/institution

GIS Analyst:

As a GIS Analyst with a strong foundation in spatial data analysis, GIS software development, and geospatial data processing, I am experienced in using Python, React.js, HTML, CSS, and Node.js to create custom GIS applications and tools. I am proficient in industry-standard GIS software such as ArcGIS Pro, QGIS, Pix4D, and RStudio for geospatial analysis, mapping, and data visualization. Passionate about integrating big data analytics, workflow automation, and interactive dashboard development to provide insightful spatial solutions that drive better decision-making and support meaningful outcomes.

ADMINISTRATIVE SKILLS AND EXPERTISE

□ AutoCAD	□ Spatial Analysis	□ GPS
□ PostgreSQL	□ Google Earth	□ Databases
□ ArcGIS	□ Rstudio	□ Data science
□ SNAP	□ Agisoft	□ Remote Sensing
□ Engineering Survey	□ Python and R programming	□ QGIS

PROFESSIONAL EXPERIENCE

Freelance

Feb 2024 to Date

Freelancing

- Hydrological Modeling: Used a SWAT model to simulate the impact of land use management on surface and subsurface flows in a watershed.
- Data Analysis and Cleaning: Processed agricultural datasets to calculate average yield per hectare per district in metric tonnes (Mt/Ha) using dry harvest data. Identified major problems affecting crops per district and assessed the consistency of the reported data.
- Spatial Data Infrastructure (SDI) Development: Developed SDI for Nairobi Water and Sanitation Company, managed data access roles in GeoServer, and connected it to WebGIS.
- GIS Software Development: Collaborated in creating custom GIS applications using Python, React.js, HTML, CSS, and Node.js. Integrated GeoServer with QGIS web clients to facilitate the publishing of maps and layers.

Internship

Jan 2023 - April 2023

Kenya Forest Research Institute

- Successfully conducted hydrological and suitability analyses, prepared and mapped GPS data, and performed terrain and image classifications using advanced GIS tools.
- Performed accurate classification and mapping, contributing to enhanced decision-making processes in environmental management and land use planning.

EDUCATION

B.Sc. Geospatial Information Science – Jomo Kenyatta University of Agriculture and Technology

- Earned a Bachelor's degree in GIS after completing a four-year program with a focus on GIS programming, remote sensing, and spatial data analysis.
- Completed an 8-week Health Solutions Bootcamp organized by the Digital Health Applied Research Center and Palladium, focusing on the Kenya Health Management Information Systems (KenyaHMIS) program.

CERTIFICATIONS & COURSES

Python for Data Science - Simplilearn: Covers data manipulation, visualization, and analysis using Pandas, NumPy and Matplotlib.

TECHNICAL PROFECIENCY

- **Operating Systems:** Windows XP, 7, 8.1, 10
- **Programming Languages:** Python, R
- **Database Management:** MySQL, PostgreSQL
- **Web Technologies:** HTML, JavaScript, CSS, React.js, Node.js, WebGIS, GeoServer Integration
- **Software:** AutoCAD, ArcGIS, QGIS, ArchiCAD
- **Other:** Machine learning Algorithms, Artificial Intelligence

REFERENCES

Dr. Mercy Mwaniki


Chairperson,

Department of Geomatics and Geospatial Information Systems

– Jomo Kenyatta University of Agriculture and Technology

Tel: +254789418010

Email: mmwaniki@jkuat.ac.ke

JAMHURI YA KENYA  **REPUBLIC OF KENYA**

SERIAL NUMBER: 247190423 ID NUMBER: 37849323

FULL NAMES: EMMANUEL KIPSANG KOROS


DATE OF BIRTH: 25. 12. 1998


SEX: MALE

DISTRICT OF BIRTH: BARINGO CENTRAL

PLACE OF ISSUE: KABARNET

DATE OF ISSUE: 06. 02. 2019

HOLDER'S SIGN: 


 


DISTRICT: BARINGO CENTRAL

DIVISION: TENGES

LOCATION: TENGES

SUBLOCATION: TENGES

PRINCIPAL REGISTRAR'S SIGN:  T0289928054



IDKYA2471904234<<3012<<<<3011
9812253M1902064<B037849323S<<0
EMMANUEL<KIPSANG<KOROS<<<<<<<



**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

This is to certify that

Koror Immanuel Kipsang

*having satisfied all the requirements
for the award of the degree of*

**BACHELOR OF SCIENCE IN
GEOSPATIAL INFORMATION SCIENCE**

Second Class Honours (Lower Division)

*was admitted to the degree at a congregation
held at this University
on Friday the Twenty Eighth of June
in the year
Two Thousand and Twenty Four*

Vice Chancellor

Deputy Vice Chancellor
(Academic Affairs)

The Kenya National Examinations Council



KENYA CERTIFICATE OF SECONDARY EDUCATION

This is to certify that the candidate named below sat for the Kenya Certificate of Secondary Education examination in the subjects shown and attained the grades indicated.



29542101/028



NAME	KOROS EMMANUEL KIPSANG	INDEX NUMBER	29542101/028
SCHOOL	METEITEI BOYS SECONDARY SCHOOL		
SUBJECT	ENGLISH	GRADE	C+ (PLUS)
	KISWAHILI		B- (MINUS)
	MATHEMATICS		C+ (PLUS)
	BIOLOGY		B- (MINUS)
	PHYSICS		B (PLAIN)
	CHEMISTRY		B+ (PLUS)
	GEOGRAPHY		B+ (PLUS)
	BUSINESS STUDIES		B+ (PLUS)
SUBJECTS NAMED EIGHT		MEAN GRADE B (PLAIN)	
EXAMINATIONS OF YEAR 2018			
PRINTED: 190807152322			



[Signature]

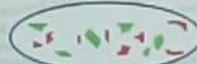
Chief Executive Officer
Kenya National Examinations Council



[Signature]

Chairman
Kenya National Examinations Council

This is a secure document printed using special paper and inks.
Please hold it up to the UV light to verify that the
word BARAZA LA MITHANI and the "AUTHENTIC"
embedded thread can be seen through the paper.
Not valid without a hologram.



(See overleaf for conditions of issue)

KCSE / 18 3552067

The Kenya National Examinations Council



KENYA CERTIFICATE OF PRIMARY EDUCATION

KCPE

This is to certify that the candidate named below sat for the Kenya Certificate of Primary Education examination in the subjects shown and attained the grades indicated.

NAME: KOROS EMMANUEL KIPSANG
ST JOSEPH'S ACADEMY

33517149/002
33517149

SUBJECT

GRADE

ENGLISH LANGUAGE

B (PLAIN)

KISWAHILI

B+ (PLUS)

MATHEMATICS

A

SCIENCE

B (PLAIN)

SOCIAL STUDIES AND RELIGIOUS EDUCATION

B (PLAIN)

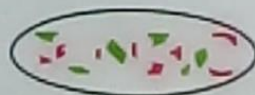
EXAMINATION OF 2014
PRINTED : 150909:08463340



Chief Executive Officer
Kenya National Examinations Council

Chairman
Kenya National Examinations Council

This certificate was issued without any alteration whatsoever. See overleaf for grades and mark intervals.



KENYA FORESTRY RESEARCH INSTITUTE

Tel: +254 20 2010651/2
+254 722 157 414
+254 724 259 781/2
+254 734 251 888
Email: director@kefri.org
Website: www.kefri.org

P. O. Box 20412
00200, Nairobi
KENYA



KEFRI/15/07/VOL. IX (36)

Ref:

18th April, 2023

Date:

TO WHOM IT MAY CONCERN

RE: RECOMMENDATION LETTER FOR KOROS EMMANUEL KIPSANG.

This is to confirm that the above named person was on Industrial attachment at KEFRI Headquarters –**GIS\Remote Sensing Unit** from **9th January** to **10th April 2023**. During the attachment, he covered the following areas: -

- Hydrological analysis
- Suitability analysis
- Preparing the GPS data in excel and Mapping them using ArcGIS
- Terrain analysis using software like SAGA and ArcGIS
- Decision Tree Classification using ENVI
- Image classification using QGIS, Google Earth Pro and Google Earth Engine
 - ✓ Unsupervised classification
 - ✓ Supervised classification-able to randomly split the reference data into training and validation data in excel used for supervised classification.
- Downloading Digital Elevation Model images and satellite images.

Throughout the attachment period, Koros was hardworking, cooperative, punctual, focused and always ready to work.

Koros related well with staff within the GIS Section and KEFRI at large. Furthermore, he exhibited his ability to work in a team with positive way of approach to his assignments. These characteristics distinguished him as a student ready to learn new skills for self-advancement. In addition, he showed a lot of maturity in his duties and mastery in performance of his duties.

I am therefore confident that given an opportunity he can perform his duties effectively and efficiently.

Linda Mutinda.

For: Director - KEFRI



**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student: KOROS EMMANUEL KIPSANG Registration No. ENC222-0148/2019
Surname Other Names
Faculty: School of Civil Environmental and Geospatial Engineering
Course: BSc. Geospatial Information Science
Date of Admission: September 2019 Academic Year: 2019/2020
Year of Study First

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
EGS 2101	Geophysical Environment	1	D
HRD 2101	Communication Skills	1	A
EGS 2102	Surveying I	1	C
EGS 2103	Engineering Drawing	1	B
EGS 2104	Introduction to Geospatial Science	1	C
CIT 2108	Introduction to Computer Science	1	C
SCH 2108	Chemistry II	1	D
SCH 2109	Chemistry I	1	D
CIT 2109	Computer Programming I	1	C
BCM 2113	Development Studies	1	C
SPH 2170	Physics I	1	D
SMA 2170	Algebra	1	C
SMA 2171	Geometry	1	C
SPH 2171	Physics II	1	D
SMA 2172	Calculus I	1	D
SMA 2173	Calculus II	1	D
SZL 2111	HIV/AIDS	1	PASS

Recommendation

PASS: Proceed to Second Year of Study

Key to Grading System

A = 70 - 100 % -Excellent
B = 60 -69 % -Good
C = 50 - 59% -Satisfactory
D = 40 - 49 % -Pass
E = 39% and below -Fail

Signed: Dean, SCEGE
Date Issued: 04 AUG 2021

NB: 1 Unit consists of 35 lecture hours equivalent:
(3 Practical hours of 2 tutorial hours are equivalent to 1 lecture hour)

Signed

Date Issued



* This transcript is issued without any erasures or alterations.



JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY

UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student: KOROS EMMANUEL KIPSANG **Registration No.** ENC222-0148/2019
Surname Other Names
Faculty: School of Civil Environmental and Geospatial Engineering
Course: BSc. Geospatial Information Science
Date of Admission: September 2019 **Academic Year:** 2020/2021
Year of Study Second

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
EGS 2201	Geodesy I	1	C
EGS 2202	Surveying II	1	C
EGS 2203	Photogrammetry I	1	C
EGS 2204	Geographic Information Systems I	1	B
EGS 2205	Cartography and Visualization I	1	C
EGS 2206	Geographic Data Projections	1	B
EGS 2207	Geographic Information Systems II	1	B
EGS 2208	Remote Sensing I	1	C
EGS 2209	Cartography and Visualization II	1	C
EGS 2210	Environmental Engineering	1	C
CIT 2210	Computer Programming II	1	B
CIT 2211	Introduction to Computer Graphics	1	C
BCM 2214	General Economics	1	A
SMA 2270	Calculus III	1	C
SMA 2272	Statistics	1	A
BCM 2335	Principles of Management	1	B
Recommendation PASS: Proceed to Third Year of Study			

Key to Grading System

A = 70 - 100 % -Excellent
B = 60 -69 % -Good
C = 50 - 59% -Satisfactory
D = 40 - 49 % -Pass
E = 39% and below -Fail

Signed: Dean, SCEGE
Date Issued: 15 JUN 2022

NB: 1 Unit consists of 35 lecture hours equivalent:
(3 Practical hours of 2 tutorial hours are equivalent to 1 lecture hour)

Signed

Date Issued



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341981

**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**

UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student: KOROS EMMANUEL KIPSANG Registration No. ENC222-0148/2019
Surname Other Names
Faculty: School of Civil Environmental and Geospatial Engineering
Course: BSc. Geospatial Information Science
Date of Admission: September 2019 Academic Year: 2021/2022
Year of Study Third

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
EGS 2301	Remote Sensing II	1	C
EGS 2302	GIS Programming	1	B
EGS 2303	Engineering Surveying I	1	A
EGS 2304	Microwave Remote Sensing	1	A
EGS 2305	Water Resources and Management	1	B
EGS 2306	Web Mapping	1	B
EGS 2307	Transportation Planning	1	B
EGS 2309	GIS Database Systems	1	B
EGS 2310	GIS Spatial Analysis	1	C
EGS 2311	Digital image Analysis I	1	B
EGS 2312	Urban and Regional Planning	1	A
BCM 2334	Principles of Kenyan Law	1	C
SMA 2370	Calculus IV	1	C
SMA 2373	Numerical Methods	1	B
BCM 2436	Research Methodology	1	B
BCM 2439	Real Property Law	1	D

Recommendation

PASS: Proceed to Fourth Year of Study

Key to Grading System

A = 70 - 100 % -Excellent
B = 60 -69 % -Good
C = 50 - 59% -Satisfactory
D = 40 - 49 % -Pass
E = 39% and below -Fail

Signed:

Dean, SCEGE

Date Issued:



NB: 1 Unit consists of 35 lecture hours equivalent:
(3 Practical hours of 2 tutorial hours are equivalent
to 1 lecture hour)

Signed

Registrar

Date Issued



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371429

**JOMO KENYATTA UNIVERSITY
OF
AGRICULTURE AND TECHNOLOGY**
UNDERGRADUATE ACADEMIC TRANSCRIPT*

Name of Student: KOROS EMMANUEL KIPSANG Registration No. ENC222-0148/2019
Surname Other Names
Faculty: School of Civil Environmental and Geospatial Engineering
Course: BSc. Geospatial Information Science
Date of Admission: September 2019 Academic Year: 2022/2023
Year of Study Fourth

UNIT CODE	TITLE OF UNIT	UNIT(S)	GRADE
EGS 2213	Practical Attachment I	1	PASS
EGS 2308	Digital Mapping	1	D
EGS 2313	Practical Attachment II	1	PASS
EGS 2401	Geographic Information Systems Applications	1	D
EGS 2402	Environmental Impact Assessment & Environmental Audit	1	C
EGS 2403	Remote Sensing Applications	1	D
EGS 2404	Project	3	D
EGS 2405	Geostatistics	1	D
EGS 2406	Navigation Systems and Applications	1	D
EGS 2408	Digital Elevation Modelling	1	C
EGS 2409	Satellite Positioning and Mobile GIS	1	B
EGS 2410	Geospatial Data Infrastructure	1	D
EGS 2411	Land Information Systems	1	B
BCM 2437	Project Management	1	B
BCM 2438	Entrepreneurship Skills	1	C
BCM 2441	Land Economics and Management	1	C

Recommendation

PASS, Awarded a Bachelors Degree in Geospatial Information Science with SECOND CLASS HONOURS (LOWER DIVISION)

Key to Grading System

A = 70 - 100 % -Excellent
B = 60 - 69 % -Good
C = 50 - 59 % -Satisfactory
D = 40 - 49 %
E = 39% and below

NB: 1 Unit consists of 35 lecture hours equivalent;
(3 Practical hours of 2 tutorial hours are equivalent
to 1 lecture hour)

Signed:

Date Issued:

**OFFICE OF THE DEAN
SCHOOL OF CIVIL, ENVIRONMENTAL
AND GEOSPATIAL ENGINEERING
JOMO KENYATTA UNIVERSITY OF
AGRICULTURE & TECHNOLOGY**

Signed:

Date Issued:

JKUAT
www.jkuat.ac.ke
Registrar
2000-00200, NAIROBI
20 NOV 2024
**DEPUTY REGISTRAR
EXAMINATIONS**

* This transcript is issued without any erasures or alterations.

REPUBLIC OF KENYA

D N° 500363

CERTIFICATE OF BIRTH

Birth in the <u>BARINGO</u>		District in the <u>RIFT VALLEY</u>		Province	
Entry No.	010003011	Where Born	Chebonwa S/loo.	Name	Emmanuel Kipsang Koroa
Date of Birth	25/12/98	Sex	Male	Name and Surname of Father	Wilson Kibor Koroa
Name and Maiden Name of Mother		Priscilla Jepkoegei Tisia			
Name and Description of Informant		Sgd. Parent			
Name of Registering Officer	J.K. RUTIO	Date of Registration	30/9/2003		

I, J.K. RUTIO District/Assistant XXXXRegistrar for BARINGO District, hereby certify that this certificate is compiled from an entry/return in the Register of Births in the District.

BREG/CA 442/2003 of 6/10/2003

AUTH NO. 501/CA of 30/9/2003


District Assistant RegistrarGiven under the Seal of the Principal Civil Registrar on the 6th day of October 20 03

This certificate is issued in pursuance of the Births and Deaths Registration Act (Cap. 149) which provides that a certified copy of any entry in any register or return purporting to be sealed or stamped with the Seal of the Principal Registrar shall be received as evidence of the dates and facts therein contained without any or other proof of such entry.

Note: A Certificate of Birth is not proof of Kenya Citizenship.