

PERSONAL INFORMATION (BIO-DATA)

Full Name:	GODWIN KIPRONO
Current Address:	Student at Dedan Kimathi University P.O BOX 657-10100, NYERI, KENYA.
Telephone:	+254702920064
E-mail:	godikiruy1@gmail.com .
Nationality	Kenyan
Date of Birth	29, May, 1999.
Gender	Male
Languages	English and Kiswahili.

Career profile	<p>A highly skilled and knowledgeable student with expertise in GIS, Remote Sensing and Environmental modelling such as Landslide Susceptibility, Air Quality Modelling, Land Use Modelling and Water Quality modelling to support decision making in various sectors. Possesses extensive experience in the planning, design, and construction of civil engineering projects, including Roads, bridges, and drainage systems. Proficient in using geospatial technologies and tools, such as GIS and remote sensing, to collect and analyze data for effective decision making. Demonstrates a deep understanding of surveying principles and techniques, including the use of GPS and total stations. Experienced in designing and implementing road and highway projects, with a focus on safety, efficiency, and sustainability. Skilled in designing drainage systems to manage water runoff and prevent flooding, ensuring compliance with relevant regulations and standards Possesses excellent communication and interpersonal skills, with a proven track record of collaborating effectively with stakeholders, team members, and experts.</p>
Technical skills and strengths	<ul style="list-style-type: none"> ❖ Ability to work under minimum supervision ❖ Very reliable with the use of basic GIS and Surveying software's such as <ul style="list-style-type: none"> ✓ AutoCAD and CIVIL-3D software's ✓ ArcGIS and ArcGIS online ✓ QGIS ✓ Surveying Instruments; Real Time Kinematics(RTK), Total Station, Levelling machine, Ground Penetrating Radar(GPR), GPS ✓ Agi-soft Photo Scan for processing Drone images ✓ Environmental Modelling; Landslides Susceptibility and Air Quality Modelling ✓ ENVI,ERDAS, IDRISI, PCI Geomatica ✓ Preparing Environmental and Social Impact Assessment(ESIA) Reports

	<ul style="list-style-type: none"> ❖ Excellent in research and analysis ❖ Ability to work effectively in a team-oriented environment ❖ Team-work oriented. ❖ Also engaged in field work and survey. ❖ Empathic listener and communicator ❖ Detail-oriented and able to manage multiple projects simultaneously ❖ Good leadership and proper planning skills
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EDUCATION BACKGROUND	
May 2019 to 2022	BSc Geospatial information Science and Remote Sensing (previous mean grade: B) Dedan Kimathi University of Technology
2014 to 2018	Kenya certificate of Secondary Education, KCSE (Overall Grade: B) Lesirwo Secondary High School
2005 to 2014	Kenya Certificate of Primary Education, KCPE (Overall score:262 marks out of 500) Excel Junior Academy

WORK EXPERIENCE	
Dec 2022 Date(3-21)	Volunteer at AEGIS COMPANY- Road Construction <ul style="list-style-type: none"> ▪ Measuring the offsets, calculating and marking the centerlines ▪ Designing the location and size of culverts based on drainage systems
Feb 2022-31 May	Volunteer at KENYA URBAN ROADS AUTHORITY-NYERI OFFICE <ul style="list-style-type: none"> ❖ Construction of a Bridge; Surveying and performing water properties ❖ Interacted with the design of the Bridge; Structure
Feb 2022-31 May	Attaché HOMELAND SURVEYS LIMITED <ul style="list-style-type: none"> ➤ Performed a topographic Surveying for the construction of church ➤ Reestablishment of beacons of fixed boundaries in Othaya town ➤ Performed traversing for construction of road[Othaya- Gatugi Road]

January 2021 to march 2021	<p>Attaché: Dedan Kimathi University of Technology</p> <p>Activities and roles.</p> <ul style="list-style-type: none"> ✓ Performing Topographic Surveying; study area- Kimathi University ✓ Fly a drone and process the output drone image ✓ Creating contours from the field data ✓ Volume Calculations; Cut and Fill for road construction. ✓ Field survey and computational of the Traversing and levelling calculations ✓ Site suitability analysis using models on ArcGIS Software ✓ Production of maps (topographic maps, thematic maps and map templates etc.) ✓ Construction of grids and counter in cartographic procedures.
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RESEARCH AREA OF INTRESTS

- ✓ Researching the use of Geographic Information Systems (GIS) in Civil Engineering projects, including site selection, infrastructure planning, and environmental assessment.
- ✓ Exploring the use of unmanned aerial vehicles (UAVs) for surveying and mapping applications.
- ✓ Investigating innovative surveying techniques for construction site monitoring and progress tracking.
- ✓ Conducting research on the application of GIS and remote sensing in civil engineering projects, including:
 1. Spatial analysis for site selection and land use planning
 2. Development of geospatial models for infrastructure management and decision Making.
- ✓ Developing and implementing geospatial technologies for civil engineering projects, including:
 1. GIS-based tools for project planning and design
 2. Remote sensing techniques for data acquisition and analysis
- ✓ Developing methods for accurately measuring and analyzing deformation in structures and land features.
- ✓ Keeping up-to-date with advancements in geospatial technologies and their potential applications in civil engineering.

OTHER SKILLS

1. Working with Google Earth Engine for Geospatial Analysis; Flood Mapping, Estimating Forest Canopy Height as well as Forest Degradation, Air Quality Monitoring and Estimating Land Surface Temperature.
2. Programming (Languages): HTML, CSS, Python, C, Java, JavaScript
3. Performing Spatial Data Science using Python and Jupiter Notebook
4. Developing web maps using Leaflet and Mapbox libraries
5. Crop mapping, Health and Yield

OBJECTIVES/ GOALS FOR INTERNSHIPS

1. Develop technical and professional skills while working with a team of experienced professionals
2. To contribute to cutting-edge technology and broaden knowledge in the use of GIS and Remote sensing in various areas of engineering, including industrial and tertiary building structures, design and drafting, underground structures, roads, drainage, geotechnical engineering, and safety risk management.
3. Gain practical experience in general or civil engineering, surveying, or safety.

HOBBIES AND INTREST

- ✓ Long-distance road trip cycling and adventure.
- ✓ Playing football
- ✓ Voluntary working and community activities.
- ✓ Watching innovative series and documentaries
- ✓ Leadership
- ✓ Hiking and Charity Experience

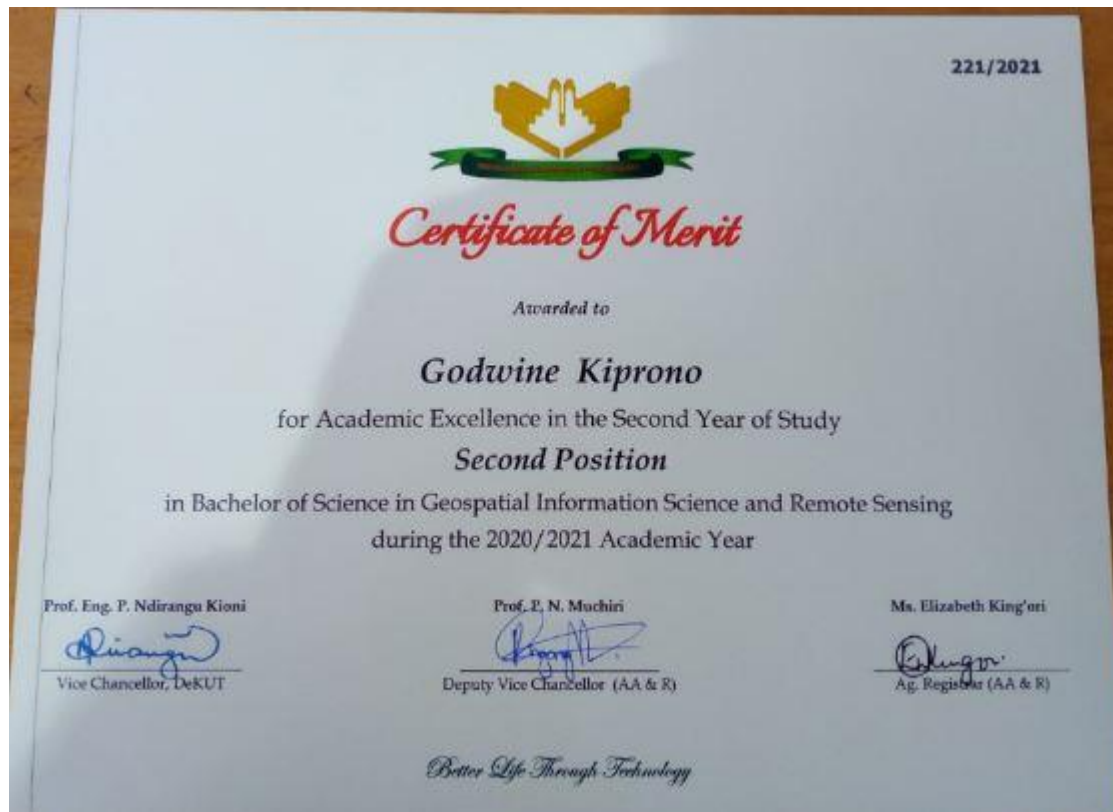
CERTIFICATIONS/ TRANSCRIPT

ACADEMIC AWARDS


FIRST YEAR: OVERALL FIRST POSITION



SECOND YEAR: OVERALL SECOND POSITION



Transcripts: AVERAGE OF B



DEDAN KIMATHI UNIVERSITY OF TECHNOLOGY
PROVISIONAL UNDERGRADUATE ACADEMIC TRANSCRIPT

Registration No: E032-01-1544/2019

Name: KIPRONO Godwin

School: Institute of Geomatics, GIS and Remote Sensing (IGGReS)

Degree: BSc. Geospatial Information Science and Remote Sensing

Academic Year: 2020/2021

Year of Study: Second

Unit Code	Unit Title	Unit(s)	Grade
GGI 2101	Geographic Information Systems I	1	B
GGI 2102	Remote Sensing I	1	B
GGI 2201	Geographic Information Systems II	1	D
GGI 2202	Remote Sensing II	1	B
GGE 2101	Geodesy I	1	A
GGE 2103	Photogrammetry I	1	B
GGE 2104	Cartography and Visualization I	1	C
GGE 2201	Geographic Data Projections	1	C
GGE 2202	Cartography and Visualization II	1	A
CCS 2211	Object Oriented Programming	1	B
ECE 2111	Environmental Engineering	1	A
SMA 2119	Calculus III	1	C
SMA 2370	Calculus IV	1	B
SAS 1201	Probability and Statistics I	1	D


Mean Grade: B

RECOMMENDATION : PASS, Proceed to Next Year of Study

KEY TO THE GRADING SYSTEM

A = 70 – 100%	Excellent
B = 60 – 69%	Good
C = 50 – 59%	Satisfactory
D = 40 – 49%	Pass
E = 0 – 39%	Fail
INC	Incomplete

NB:
1 unit consists of 35 lecture hours or equivalent (3 practical hours or two tutorial hours are equivalent to 1 lecture hour)



Signed: _____
Director, IGGReS

Date: _____

Certificate on National Values and Principles of Governance



Crop Mapping with Kenya Space Agency



REFEREES

1. Mr Maina Waititu –Lecturer Dedan Kimathi University

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2. Mr. Wisdom Kipkemoi-Graduate Assistant

Tel=+254705653156

3. Mr. Antony Muraya – Senior Surveyor Homeland Survey Limited

4. Tel = +254713929094