NAME	**ELIAS CHERENET WELDEMARIAM (ASSISTANT PROFESSOR IN GEOSPTIAL SCIENCES)**, Current, PhD Student (Ecosystem Management) +61-0414793961; eliachent@gmail.com ,eweldema@myune.edu.au
POSITION	**EXPERT IN (GIS, REMOTE SENSING, NATURAL RESOURCES MANAGEMENT, SPATIAL ECOLOGY, WATER RESOURCES AND WATERSHED MANAGMENT, CLIMATE CHANGE AND LAND USE PLANNING**
Language Proficiency	**AMHARIC, AFAAN OROMO, ENGLISH**
Education	**MSc. Degree in Geo-Information Science and Earth Observation (GIS and Remote Sensing) for NaRM** - (17Sep 2014–11 Mar 2016) University of Twente, Faculty of Geo-Information and Earth Observation (ITC), the Netherlands Hengelosestraat 99, 7514 AE Enschede (Netherlands) https://www.itc.nl/ **BSc. Degree in Natural Resources Management** - (Sep 2007–10 July 2010) Bahir dar University, Bahir dar (Ethiopia) https://www.bdu.edu.et/
EMPLOYMENT RECORD/ EXPERIENCE	Elias holds a Master's degree in Geo-information Science and Earth Observation from the University of Twente, ITC, the Netherlands, and a Bachelor's degree in Natural Resources Management from Bahir Dar University, Ethiopia. Currently, he is working as an assistant professor of GIS and remote sensing at Haramaya University. Elias has over 10 year's of experience in research, academia, and consulting in the areas of applications of GIS and remote sensing technologies in mapping and monitoring: land use and land cover change; drought monitoring, participatory GIS mapping, biodiversity studies; climate change; watersheds and natural resources; forests; and agriculture. He also has rich experience in applying GIS technologies to examine the livelihood impacts of intergroup conflicts in resource-scarce areas, in mapping conflict zones where conflict-induced forced displacements of people are exacerbating the already dire humanitarian and ecological situations of various conflict zones. He has been using qualitative and quantitative methods to examine trends/patterns and dynamics of natural resource-related competitions in various parts of Ethiopia. His teaching experiences include Geographic Information Systems (GIS), Remote Sensing, Principles of Environmental Modeling, Spatial Data Analysis and Modeling, GIS Applications for Integrated Watershed Management, NRM, and Disaster Risk Management, Geodatabases, Open-Source GIS, and Interactive Web Mapping. Moreover, Elias has delivered widespread on-the-job training in GIS and remote sensing for expertise drawn from environmental sciences, land administration, land use, spatial planning, natural resources, ecology, and climate change disciplines. These experiences helped him to advance his analytical capacities in managing and processing large volumes of spatial data, such as drones and UAVs, satellite data (MODIS, Landsat, and Sentinel), and GPS, socio-economic, demographic, and land use-related data. Elias has a wide range of skills related to retrieving biodiversity and environmental metrics using cloud-computing platforms such as Google Earth Engine, ArcGIS, QGIS, ENVI, ERDAS Imagine, and statistical packages such as R and SPSS. He has good working experience with local, regional, and international stakeholders. Elias authored and co-authored several scientific articles in high-impact journals. Elias has been working as the lead senior GIS and land use consultant for the ground truthing and management plan preparation for AR/ANR plantation sites and rehabilitated degraded lands in nine project intervention districts of the Forest Sector Development Program (FSDP) of the UNDP-EFCCC: project intervention site boundary and land use mapping, GIS training, and geodatabase creation. He also worked as a GIS and Land Use Planning Consultant (Senior Specialist) in 13 districts of Western Amhara for the UNDP/REDD+ project on spatial data collection and analysis of biophysical and forest cover-related data and produced land use land cover maps and geodatabases for restoration and reforestation sites. Moreover, Elias has served as a GIS and RS expert for evaluating the existing HarariRegion and Harar City structural and spatial land use plans and has been involved as a GIS trainer for urban land administration and management expertise on spatial data analysis and geodatabase building for urban land administration in Addis Ababa city administration.

	My experience with location-based analysis (qualitative and quantitative) will aid me in analyzing, spatially mapping, and physically geo-locating all market location and demographic situations, natural resources and ecosystem service types, Agricultural production systems, stakeholders, and livelihood in various food-insecure areas (households, villages, districts, and zones). Finally, I believe my rich experience in the use of advanced ICT applications in social sciences research is relevant to the current research and create an in-depth understanding of the selected cases; hence producing quality output and reports as per the client standard.
26/09/2016 to Present	**Assistant Professor of GIS and Remote Sensing,and Head of GIS department, Haramaya University, P.o.box 138, dire dawa.** http://www.haramaya.edu.et/ • **Geo-information science and Earth Observation Specialist**: Expertise in GIS and Remote Sensing applications in natural resources, spatial ecology, climate change, environment, biodiversity and agriculture. • **Lecturing (BSc and MSc students)** in the field of GIS and remote sensing applications; environmental sciences; natural resources; environmental health, disaster risk management and climate change. • **Geospatial Researcher**: geospatial research (remote sensing and spatial sciences) application in Geo-environmental resources (Agriculture, climate modelling, forest, land use and land cover analysis, spatial planning, drought monitoring using vegetation index, environmental management, soil and natural resources, species distribution and habitat suitability modelling and mapping, biodiversity and ecology). • **Spatial data analysis and geodatabase development** with the applications of GIS and Remote Sensing technologies in various fields (in natural resources, environment, forestry, agriculture, spatial ecology, climate, land-use planning, etc.). • Community services, manage different course and office works including departmental related activities; participate in volunteer work, advisory and consultancy services • **Delivering on job training** in the field of GIS and remote sensing applications; environmental sciences; land administration, urban/spatial planning, natural resources and watershed; ecology and climate change. • MSc **student advising,** participation on thesis defence evaluation; participate in reviewing and approving research project proposals, providing technical assistance, and monitoring and evaluating research projects. • Involved in curriculum development committee and chaired the team (GIS and RS MSc and for the BSc Nationally Harmonized Curriculum)

01 November to 31 December 2022.	**GIS and RS Consultant:** Water scarcity risk map in Lake Tana basin under current and future climate change scenarios based on selected CIMP6 models; **Funded by International water management Institute (IWMI) through Future Leader: African Independent Research (FLAIR) project fellowship 2020. Project Ref: 4500006969.** • Prepared climate change projections for the lake Tana sub- basin based on selected climate models from downscaled CIMP6 NASA GDDP model sets • Conducted analysis on water scarcity risk based on business-as-usual water abstraction scenario and current irrigated land area and water scarcity risk maps for different scenarios in GIS format • Conducted analysis on water scarcity risk based on climate change projections and increased irrigated land area and water scarcity risk maps for different scenarios in GIS format • Conducted analysis on water scarcity risk based on climate change projections and increased irrigated land area, and better water management options and water scarcity risk maps for different scenarios • Produced maps, compiled data and produced a draft report and submitted maps in GIS format
April 29-May 3/2024	**Trainer** for senior professional from Harari Region Environmental Audit, organized by Harari Region Audit Office. The training focus on the role of Geospatial Technologies in Environmental Auditing. - General Overview about EIA and Environmental Auditing - The role of GIS and GPS in Environmental Auditing - The role of earth observation (satellite, and drone) data for Environmental Auditing - The international experience on the use of Geospatial technology in support of environmental auditing - IoT and sensor for waste management
April 13-17/2022 And March 7-12/2023	**GIS and RS trainer** for senior professional from Dire Dawa Administration Environment Forest and Climate Change Authority and City Manager, jointly organized by Haramaya University, Department of Geographic Information Science and Dire Dawa Environment Forest and Climate Change Authority, at Haramaya University - Basics of ArcGIS and QGIS - Spatial data analysis - Basic of remote sensing image analysis - Land use land cover analysis - NDVI based forest cover monitoring - Google Earth Pro and web based GIS - GIS and RS for Forest and Natural Resources Management
July 22/2021 – April 30/2022	**GIS and Land Use Planning Consultant (Senior Specialist) for Integrated forest management plan preparation for Enclosures in ANR sites of Ethiopia:** **Client: United Nations Development Programme (UNDP),** Ethiopia United Nation Development Programme, Congo Building, ECA Compound, P.O. Box 5580, Addis Ababa (Ethiopia) https://www.et.undp.org/ REDD INVESTMENT PROGRAM- Afforestation Reforestation Assisted Natural Regeneration (RIP-AR) and FSDP Project. **Location: 13 Woreda of Western Amhara, Ethiopia.** Prepared an inception report with working detailed methodology and work plan on how to approach the land use plan using GIS, and data collection • Conduct biophysical and forest cover related data collection, analyse data, compile shape files(2D and 3D area format) and other data around 900ha of the targeted area, with a minimum of 500hectars for each woreda,

June15-30/2021	• Produced biophysical analysis, land use and geodata reports including maps for 6500ha area constituting 500hectars from each woreda • Prepared manual and conduct training on GPS, ArcGIS and land use planning, biophysical and forest data acquisition, processing and reporting for 54 expertise drawn from 13 Woredas • Produced consolidated report
18 March 2019–31 Oct 2019	**GIS expert: For evaluating the existing Harari Region and Harar City Structural Plan Study** **Client:** AMASILA CONSULTING ARCHITECTS AND ENGINEERS, Harar, Ethiopia. • Evaluate the base map Geodatabase of the region and the city spatial planning report • Evaluating the existing situation analysis report • Evaluating the data quality and validity • Checking the data Topology • Writing and presenting the result
5/2/2018-3/17/2018	**GIS and Remote Sensing Consultant (Senior Specialist)- United Nations Development Programme (UNDP)**, Ethiopia United Nation Development Programme, Congo Building, ECA Compound, P.O. Box 5580, Addis Ababa (Ethiopia) https://www.et.undp.org/ **Project**: GIS and Remote Sensing Consultant for the project "**Ground Truthing and Management Plan Preparation for Plantation Sites and Rehabilitated Degraded Lands in Tigray, Amhara and SNNP Regional States of Ethiopia**". • Develop accurate maps of the Afforestation/Reforestation (A/R) and Assisted Natural Regeneration (ANR) sites. • Spatial data analysis and geodatabase development of plantation and Rehabilitation sites. • Provide geospatial information that helps to monitor the progress and sustainability management of the forest resources. • Develop accurate spatial data collection methods/protocols, guidelines for delineating, mapping and monitoring methods of the intervention sites (A/R and ANR), and provide capacity building to the regional and National UNDP coordinating offices. • Offer training on GIS and Remote Sensing-based spatial mapping and forest monitoring system, satellite image uses and interpretations to regional UNDP coordinating offices. • Offer training on handheld GPS, field data collection to the regional UNDP coordinating offices.
10/12/2010–13/09/2013	**GIS trainer , Panafrica Geo-information services Pls** • Delivered training for urban land Administration and management expertise:-Organized by **Panafrica Geo-information Services Pls and ESRI East Africa**. • **ArcGIS software** • Basic spatial data analysis • Geodatabase building for urban land administration • Basic web GIS for land management • Advanced Spatial Analysis • Basic Cartography **Researcher (Forestry and Natural Resources),** Amhara Regional Agricultural Research Institute, Gondar Agricultural Research Centre, Gondar (Ethiopia) www.arari.gov.et • Coordinate different Forestry, Agroforestry, and Natural resources research projects at the regional and national levels. • Participate in monitoring & evaluation of different research activities at the field level. • Data collection, analysing & interpretation of research result using different statistical software • Participate in Identifying and designing new research thematic areas in Forestry and Agroforestry, and natural resources management. • New research project proposal initiation, planning, & executing according to their plan.

Research Grants	• Established FRG and nursery sites for the demonstration of Moringa trees in lowland areas. • Preparing monthly, quarterly, annual research plan & writing research progressive reports. **PROJECTS AND RESEARCH GRANT** • Satellite-based Evapotranspiration Modeling and Hyperspectral imaging for regional indicators of droughts in Ethiopia (SEMHy-ARID) European Space Agency (ESA) ,in coordination with European Space Agency and African Union Commission Dec 2024 - March 2026 Ongoing • Climate Resilient Rainwater Harvesting (RWH) Technologies in Drought Prone Areas of Ethiopia. **Co-author**. Code: HUSS_2020_01_03_75. **Funded by Ethiopian Water Technology Institute (EWTI)** • Drought Monitoring and Modelling in Ethiopia: The EO AFRICA R&D Facility, in coordination with the European Space Agency (ESA) and the African Union Commission (AUC). Project title : A composite drought indicator for the Borana rangelands in Ethiopia combining multi-source Earth Observation data and the three-source balance model: a support to the index-based insurance for pastoralists in Ethiopia. Member of the project (Co-PI).(Research Projects 2023-2024 – EO AFRICA (eoafrica-rd.org)) • Mapping Rangeland Resources and species composition in the Dry Land Pastoralist Agro-Ecology, Funded by USAID, Member of the project • Degraded land restoration project around Dengego area, Ethiopia, **Co-author**. **Funded by Environment, Forestry and Climate Change Commission (EFCCC)** • Baseline GUG Emission Estimation, Projection and Preparation of Sectorial Reduction Action Plan (SRAP) in Harari Regional State. Code: EFP_2021_01_19.(Project Member-Co-Authors) • Geo-Mapping and digital preservation of Indigenous knowledge for Nutritional and medicinal plants Used In Eastern Ethiopia, **Co-author,** .**Funded by Haramaya University Research Grant.** Code: HUIF_2021_03_01_61 • Developing a geospatial database for tree plantation sites and seedlings of Green Legacy Campaign in Eastern Ethiopia. **Principal investigator**. Code: HUIF_2019_01_03_41, **Funded by Haramaya University Research Grant.** • Soil Organic Carbon Potential mapping in khat Dominated Landscape using Remote Sensing and In Situ Data, Haromya Woreda, Ethiopia. **Principal investigator**. Code: HURG-2018-01-03_12.**Funded by Haramaya University Research Grant.** **RELEVANT DIGITAL SKILLS** • *Proficient in Microsoft office programs/office 365 apps; experienced in statistical software's SPSS, R-STUDIO...,* Matlab(Basic), Python (Basic),Basic C++ and OOP • Experienced in most geospatial software's (ArcGIS, ERDAS IMAGINE, ENVI, QGIS, SQL, Agisoft Metashape, ArcHydro, Pix4d Mapper Drone Mapping and Photogrammetry Software, For UAV/Drone Image Processing, Google Earth Engine. GPS handling, SDM model, Climate model • UV Spectrophotometer, • Satellite Data Processing (Drone Image, Multispectral Image), NNDVI and Spectral Analysis, • 3d Canopy Radiative Transfer Model (Inform), • *Collect and Collect Earth Tool for Forest Resource Monitoring and Assessment* • *Open Data Kit (ODK) Collect or Kobo Toolbox for Mobile-Based Data Collection Methods.* • *Other Geo-Information and Earth Observation/GIS and Remote Sensing Data Processing and Analysis Software's)* **RELEVANT PROFESSIONAL CERTIFICATIONS** • Attend Cloud Computing and Algorithms for EO- Analyses, by EO AFRICA R&D facility , October 17-21/2023, Kigali (Face to Face) • Assessing potential use of water resources in an African river basin EO AFRICA R&D Facility 19 June – 14 July 2023(Online)

- Wetlands Vulnerability Analysis Training organized by the Department of Geomatics and Land Management, Makerere University, from the 14th to 15th of August, 2023.(Online)
- Data Science with Python, 21st Nov 2023, Certificate code : 4661211, at Simple Learn SkillUP.
- Predicting and projecting climate change and variability :by Africa center of excellence for climate smart agriculture and biodiversity conservation, Haramaya university
- AfricaGIS 2021 hackathon on food security and water resources by: EO Africa research and development facility, games Africa, Curat and African union, Abidjan, republic of Côte D'ivoire (Ivory Coast)
- International training on integrated decision support system (soil and water assessment tool –swat) by Texas A & M university systems and ace climate SABC- Haramaya university
- Training participation on the use of drones for agricultural monitoring by ICRC AND Haramaya University
- Certificate of 2nd rank winner in digitalization of indigenous knowledge in African agriculture for fostering food security by covid-19 inspire hackathon, 2020
- Winner In Mapping And Predicting Desert Locust Invasion(Challenge 4 Desert Locust) Inspire Hackathon Series Innovation Award   By Kampala Inspire Hackathon 2020
- MOOC Completion of Basic And Advanced Module On Geospatial Applications For Disaster Risk Management By Unoosa (Online)
- Space-Based Information For Ecosystem-Based Disaster Risk Reduction(ECO-DRR) By Un-Spider And Centre Of Excellence In Disaster Mitigation And Management (COEDMM) Indian Institute Of Technology (IIT) Roorkee, India
- Training On Erdas Imagine By Oakar Services, Addis Ababa
- Foundational School in Research Data Science (RDS) By ITCP, EAIFR, and CODATA at the University of Rwanda, Kigali.

Organizational / Managerial Skills

- Head, department of Geo-information Science (GIS)
- Experienced in managing research projects and case studies with various multi-cultural scientists.
- Conducted research projects and team leader of various professional teams in the university and across the department
- Team leader/project leader for various projects at the department.
- Involving in different committee assignments.

PROFESSIONAL CERTIFICATIONS	**Job-related Skills** • Excellent in the key-problem identification and integrating solutions with researches and community services. • Experienced in research output dissemination through workshop presentation & publication. • Research skills in geospatial and earth observation (GIS and Remote Sensing) application in natural resources, environment, spatial ecology, climate change, biodiversity, forestry, agriculture, watershed management and land-use planning, , etc. • Experienced with various geospatial and statistical processing and analysis tools or software's. • Experienced in teaching and presentation • Providing training in geospatial and earth observation (GIS and Remote Sensing) applications and software's. • Field data collections and protocols using mobile apps (ODK Collect / KoBo Toolbox).
	Conference • AfricaGIS 2021 hackathon on food security and water resources by: EO Africa research and development facility, games Africa, Curat and African union, Abidjan, republic of Côte D'ivoire (Ivory Coast) • The 2017 AfricaGIS Conference United Nations Conference Centre, Addis Ababa – Ethiopia (20-24 November 2017): By Eis-Africa (Africa Gis 2017); Participant • International conference on Transforming Food Systems through climate smart Agriculture (CSA) 26-28 October , Haramaya University Participant
LIST OF PUBLICATIONS	**LIST OF PUBLICATIONS** 1 **Weldemariam, E. C**., Mulualem, G. M., Yohannes, T., Nieto, H., Andreu, A., and Burchard-Levine, V.: Multi-Source Earth Observation Data for Drought Monitoring in the Borena Region in Southern Ethiopia, EGU General Assembly 2024, Vienna, Austria, 14–19 Apr 2024, EGU24-16800, 2024. Preprint (Abstract).. https://doi.org/10.5194/egusphere-egu24-16800 2. Esser, L.F. & **Weldemariam, E.C**. (2023) Climate changes could jeopardize a main source of livelihood in Africa's drylands. Journal of Nature Conservation, 71, 126319. (IF =2.0, Citation = 1) https://doi.org/10.1016/j.jnc.2022.126319 3 **Weldemariam, E.C**., Dejene, W., S., Bobasa, F. A., & Abraha, K. H.(2022). Modelling the distribution of Oxytenanthera abyssinica (A. Richard) under changing climate: implications for future dryland ecosystem restoration: Journal article of Heliyon, 8 (3), e10393 (IF=4.0, Citation = 1). http://dx.doi.org/10.1016/j.heliyon.2022.e10393 4. **Weldemariam, E. C**., Dejene, WS (2021). Predicting invasion potential of Senna didymobotrya (Fresen.) Irwin & Barneby under the changing climate in Africa. Ecological Process (Springer Open), 10 (5), pp. 1-10. (IF 4.6, Citations = 4). https://doi.org/10.1186/s13717-020-00277-y 5. **Weldemariam, E.C**., , Abiyu, A., Getnet, A., Sisay, K., Dejene, T., (2020). Tapping height and season affect frankincense yield and wound recovery of Boswellia papyrifera trees (2020). Journal of Arid Environments, 179, pp. 104176. (IF = 2.7, Citations = 4) https://doi.org/10.1016/j.jaridenv.2020.104176 6. Darvishzadeh, R., Skidmore, A., Abdullah, H., **Weldemariam, E.C.,** Ali, A., Wang, T., Nieuwenhuis, W., Heurichd, M., Vrieling, A., O'Connor, B., Paganini, M. (2019). Mapping leaf chlorophyll content from Sentinel-2 and RapidEye data in spruce stands using the invertible forest reflectance model. International Journal of Applied Earth Observation and Geo-information, 79, pp. 58- 70. ISSN 0303-2434. (IF = 7.5, Citations = 60). https://doi.org/10.1016/j.jag.2019.03.003. 7. Yasin, K. H., **Weldemariam, E.C**., , Woldemariam, G.W..,, Gelete, T.B., Yuya, I. A. (2023). Abattoir Site Suitability Modeling Using a Geographic Information System and Multi-Criteria Evaluation–A Case Study of Dire Dawa City, Ethiopia. KN - Journal of Cartography and Geographic Information, 73 (1), pp. 161–178. https://doi.org/10.1007/s42489-023-00134-w 8. . Sintayehu, D. W., **Weldemariam, E.C.,** Ebrahim, A. S., Woldeyes, F. (2020). Modeling invasion potential of Lantana camara under the changing climate and land use/land cover change in Ethiopia: Its implication for management of the species. Plant Biosystems - An International Journal Dealing with all Aspects of

Plant Biology, 155 (6), 1189-1197. (IF = 2.0, Citations = 3). https://doi.org/10.1080/11263504.2020.1864494

9.. Dejene W. Sintayehu, Anthony Egeru, Wai Tim Ng, **Weldemariam,E.C**.(2020). Regional dynamics in distribution of Prosopis juliflora under predicted climate change in Africa. Tropical Ecology, Volume 61, issue 4, pages 437–445, https://doi.org/10.1007/s42965-020-00101-w (cited by 10)

9. **Elias Cherenet**, Emmy Saviour Jakisa, Diana Ahebwe(2017).Implication of forest zonation on tree species composition, diversity and structure in Mabira Forest, Uganda . *Environment, Earth and Ecology.* https://doi.org/10.24051/eee/69224.(cited by 13)

11. Abate Tsegaye**, Elias Cherenet**, Hadera Kahesay. (14/11/2016). Participatory evaluation of mobile tree nursery, in "Mitigating Land Degradation and Improving Livelihoods - An integrated watershed approach". United States: Taylor & Francis (Routledge). Book chapter

12. Charvat, K, Bye, BL, Kubickova, H, Zampati, F, Löytty, T, Odhiambo, K, Kamau, K, Anand, S, Kasoma, P, Houël, M, **Cherenet, E**, Obot, A, Kariuki, F, Kantiza, A, Ssembajwe, R, Njogo, S and Kamau, W. 2021. Capacity Development and Collaboration for Sustainable African Agriculture: Amplification of Impact Through Hackathons. Data Science Journal, 20: 23 (*22)*. pp. 1–12. DOI: 10.5334/dsj-2021-023 (Cited by 5)

13. Antoine Kantiza; Tuula Löytty; **Elias Cherenet**; Robert Sabimana; Petr Horák; *et al*. Digitalization of Indigenous Knowledge in African Agriculture for Fostering Food Security 26 October 2021. Published. https://ieeexplore.ieee.org/xpl/conhome/9576830/proceeding

PROCEEDINGS ON CONFERENCE

- Ambachew Getnet, Abrham Abiyu, Hailu Kindie, Biazen Endalamaw, Getnet Kendie, Tesfay Sisay, **Elias Cherenet** and Bihonegn Akalu . Assessing the Distribution and Social Perception of Ipomea Carnea Shrub Species, A Case Of Chiliga Woreda, North Gondar. Proceedings of the 9thAnnual Regional Conference on Completed Research Activities of Forestry, March 6-13, 2017. Amhara Agricultural Research Institute (ARARI), Bahir Dar, Ethiopia.
- Getu Abebe*, Ambachew Getnet, Abrham Abiyu, Kibruyisfa Sisay, Getnet Kindie, Melaku Abew , Biazen Endalamaw, Hadera Kehasay, Tesfaye Sisay and **Elias Cherenet** . Evaluation of the Adaptability of Different Eucalyptus Species in the Highland Part of Amhara Region. Proceedings of the 9thAnnual Regional Conference on Completed Research Activities of Forestry, March 6-13, 2017. Amhara Agricultural Research Institute (ARARI), Bahir Dar, Ethiopia.

PROFESSIONAL MEMBERSHIPS

- GIS Works Services/Remote Sensing Professional Level-7 Certificate.
- Member of Geographic Information Systems Society of Ethiopia.
- Ethiopian Forestry Association Member.
- Member of scientific committee for EO FOR AFRICA SYMPOSIUM 2024

References list:

Reference 1: Abrham Abiyu (Ph.D)
Tree seed source officer at World Agroforestry Centre (ICRAF)-Ethiopia.
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Reference 2: Esie Gebrewahd Gebre (MA), Associate Dean, College of Social Sciences and Humanitie University . P.O.Box- 138 ,Dire Dewa Ethiopia Phone Number: +251921845241
Reference 3: **Asnake Mekuriaw (PhD):** Addis Ababa University, Department of Geography and Envir Mobile: +251 (0) 911 485 210. Email: asnake.mek@gmail.com. asnake.mekuriaw@aau.edu.et
Reference 4: Kibruyesfa Sisay(PhD): EFCCC/UNDP, Addis Ababa Ethiopia, Senior GIS expert
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Tel +251(0)912430419/0993530105

Declaration:

I confirm my intention to serve in the stated position and present availability to serve for the term of the proposed contract. I also understand that any wilful misstatement described above may lead to my disqualification, before or during my engagement.

E L I A S   C H E R E N E T   W E L D E M A R I A M   08 / 0 5 / 2 025

Signature of Personnel	Date (Day/Month/Year)