**MARK AJILIT ELUNGAT**

**Professional Reg.Geologist**

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**SUMMARY/ OVERVIEW**

I am an enthusiastic and adaptive geo-scientist with over three years of experience in the various aspects of Geology, Geotechnical engineering, GIS, Geophysics.

I seek opportunities in Geoinformatics, where I can contribute to solution for major societal challenges that are ingrained in geoscience.

**EDUCATION**

-B.Sc. (Hons) Geology Major (2nd Upper Division) | South Esthern Kenya University (SEKU)| Feb, 2018

Research Dissertation: **Influence of geological structures on the occurrence and distribution of geothermal system: olkaria domes geothermal field as case study area.**

**I used GIS as a tool to overlay geophysical data(resistivity), satellite imagery and geochemistry data to image the subsurface geological structures which control occurrence and distribution of geothermal rich areas within the Olkaria Dome Geothermal field.**

**Units done:** Hydrogeology, Principle of mineralogy, Petrology(igneous ,metamorphic and sedimentary), Thermodynamics, , Exploration Geophysics, Sedimentology, Sedimentary, Environmental Geology, ore deposit, Structural Geology a, GIS & Remote Sensing, Project Work (Dissertation),Geology and mineral resources of Kenya, Exploration Geochemistry, Exploration Geophysics, Engineering Geology, Oceanography Introduction, Marine Geology Thermodynamics ,Seismology, Geophysical Field Project, Industrial Minerals and Rocks,Algebra,Calclus(1-Advance),mechanics, electricity and magnetism, structures and properties of matters,geostatistics,paleontology,earth processes

-GIS online cert courses | Esri| 2017-2019

**PROFESSIONAL EXPERIENCE**

November 2019 to Date | Geologist/GIS assistant| Nature Surf Systems Limited

I am among the team of young Kenyan Geoscientist involved in the Nationwide Airborne survey; involving use of magnetic and radiometric to delineate mineral potential areas and to update the geological maps for the government of Kenya .As a geologist and GIS assistant I offer proficiency in: Planning of survey; which involves determining of flight direction ,generating survey flight lines and drape plans; performing quality control on acquired data; pre-processing, processing, analysis and interpretation of airborne magnetometer and gamma-ray spectrometer data; producing of daily reports and statistic using QGIS, producing preliminary and final map products and reports for a range of magnetic and radiometric data.

Achievements: I have gained vast knowledge on geophysical surveys; data preparation and management, processing of data using Geosoft and interpretation of magnetic and radiometric data.

Software learned: Data view, Magcomp, Geosoft

Feb 2021-to Date| Geotechnical Consultant | Bricklane/Max Geological Consultants ltd

As Geotechnical consultant I am tasked with: Resource assessment and planning of the projects which involved preparing budgets for site investigation. Site Supervision, generating maps for study area, Helped in Data collection spatial, geotechnical & environmental Investigation, compiling borehole and coring reports, Logging, Geological Mapping; performing insitu tests, Geotechnical Report writing, Preparation of Laboratory Schedule and Sorting Samples for testing.

Dec 2017 – November 2019 | Geologist/Site and Project manager | Rocklink Geological Consultants ltd

As Geologist I was tasked with: Resource assessment and planning of the projects which involved preparing budgets for site investigation. Site Supervision, generating maps for study area, Helped in Data collection spatial, geotechnical & environmental Investigation, compiling borehole and coring reports, Logging, Geological Mapping; performing insitu tests, Geotechnical Report writing, Preparation of Laboratory Schedule and Sorting Samples for testing.

**Achievements:** I developed several templates for the company: Classification tests analysis, shallow foundation bearing capacities calculation templates. Personal growth in terms of skills and geoscientific knowledge- Learned how to make logs using strater software, perfect on foundation analysis and design and in report writing. Within the same period, I supervised more than 50 Geotechnical projects; all successfully executed.

2nd May-29th July, 2016 | Attaché Geologist | KenGen

I was attached to different departments:

Geo dep: Under the supervision of Senior geologist and lad techs, I participated in Collection of rock cutting samples, Logging process, Slide preparation, data entry and management

Geochemistry dept. I carried out sorting, packing and indexing of 500+ collected steam samples. I was also Involved in clay analysis using XRD and also geochemical analysis of brine and gas samples collected at different wells

Geophysics dept: Under the supervision of Mr. Junior, I participated in various geophysical data collection methods; Passive seismic sounding monitoring Transient electromagnetic sounding collection, Magneto telluric sounding collection and Precise micro-Gravity site monitoring method

May to August 2015| Intern Geologist | AKILI MINERALS SERVICES Ltd

As an intern, I participated on Ground Magnetics and Gradient & Pole-Dipole Induced Polarixzation Prospecting Methods for Gold in the Busia-Kakamega Greenstone Belt of SE Uganda and Lokitoung in Turkana. My responsibilities included: designing of the survey plans; acquisition, processing and analysis of both ground magnetics and gradient & pole dipole induced polarization data; production of daily reports, scientific reports and maps for a range of magnetic and gradient & pole dipole induced polarization surveys, Sampling (Stream sediments sampling, Rock chip sample collection and Trench sampling) and Panning of the soil samples.

Conferences and Workshops Attended

* Three-day (13th- 17th) geothermal training workshop conducted by JKUAT in collaboration with KenGen, GDC, Kyushu University and JICA.
* Two-days 16-17 NOV 2016, Gis International training conducted at SEKU.
* Participated in Student Leadership Summit 2016 held at Ufungamano Auditorium on 9th July 2016.
* Participated in Science Congress; Mathematics Exhibit presentation up to the provincial levels in 2012 held at Mbale High School.

REFERECEES

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| Pro.Eliud Mathu  Director; Department of Mining and Mineral Processing  South Eastern Kenya University, Po Box 170, Nairobi.  Cell: 0722996179 | Mr. David Adede,  Manager, Rocklink geological consultants’ ltd.  Po Box757 – 002000, Nairobi.  Cell: 0722266187 | Mr. Lawrence Onyango  Geologist, Kengen  P.o box 785-20117  Naivasha  0724556206 |