

1. **Current Position** : **Martials Engineer**
2. **Name of Firm** : Kiri Consult Ltd
3. **Name of Staff** : **Eng. Luke Ouma WENDE**
4. **Date of Birth** : 27th June 1983 **Nationality:** Kenyan
5. **Education** : Bachelor of Technology in Civil and Structural Engineering
Moi University, Eldoret, Kenya (2008)
6. **Years of Experience** : **11 years**
7. **Membership of Professional Associations:**
 - ❖ Registered Engineer, Kenya's Engineers Registration Board (ERB)
 - ❖ Corporate Member, Institutions of Engineers of Kenya (MIEK)
8. **Other Training:**
AutoCAD 2009, AutoCAD Civil 3D, Office 2007, Office Project.
9. **Countries of Work Experience:** Kenya ,Zambia, Rwanda and Uganda
10. **Languages:**

	<u>Speaking</u>	<u>Reading</u>	<u>Writing</u>
English	Good	Good	Good
Kiswahili	Good	Good	Good

11. **Employment Record:**

No	Period	Employer	Positions
1	July 2006- September 2006	Nippon Koei Consulting Engineers	Student Attachee
2	November 2006- January 2007	Geoff Griffiths & Associates Ltd	Student Attachee
3	June 2007-September 2007	Surtech Consulting Engineers Ltd	Trainee Engineer
4	September 2007- todote	Otieno Odongo & Partners Consulting Engineers Ltd	1. Assistant Engineer 2. Business Development Officer 3. Traffic Engineer 4. RE-Materials 5. Materials Engineer

12. **Tasks Assigned:**

- ❖ Materials investigations and reporting
- ❖ Technical Audits
- ❖ Supervision of various contracts
- ❖ Traffic study, analysis and reporting.

13. **Business Development**

As a Business Development officer, I have successfully written the following technical and financial proposal which were awarded to the firm.

- ❖ Construction Supervision of Loruk-Barpelo Road
- ❖ Preliminary and Detailed Engineering Design of Nginyany-Lokori-Lokichar Road
- ❖ Technical Audit of Roads Funded By KRB in North Rift Region
- ❖ Preliminary and Detailed Engineering Design of Baragoi-North Horr Road

14. **Work undertaken that Best illustrates my capability.**

Following is a detailed chronology of my work experience starting with present.

NO	Name of Assignment/Project	Period	Public Body	Main Project Features	Position Held	Activities Performed
1	Preliminary and Detailed Engineering Design of Baragoi – North Horr Project	August 2018-todate	Kenya National Highways Authority (KeNHA)	<ul style="list-style-type: none"> • Traffic surveys • Materials sampling and testing • Hydrological investigations • Geometric Design 	Materials Engineer	<ul style="list-style-type: none"> ▪ Coordination of all the aspects of the materials Investigations ▪ Materials sites investigation and design ▪ Pavement design ▪ Preparation of Engineers Cost Estimates and BoQs ▪ Preparation of the tender documents
2	Technical, Performance and Financial Audit of KRB funded projects within Eastern Region	April 2019 to July 2019	Kenya Roads Board	<ul style="list-style-type: none"> • Technical Audit • Financial Audit • Performance Audit 	Technical Auditor	<ul style="list-style-type: none"> ▪ Technical Audit for the following agencies / counties <ol style="list-style-type: none"> 1. Makueni County 2. Machakos County 3. Kitui County 4. KeNHA
3	Construction Supervision of Loruk-Barpelo Road (B4) Section- (Baringo County)	Nov 2014-March 2018	Kenya National Highways Authority (KeNHA)	<ul style="list-style-type: none"> • Project Value – Ksh 5.8 Billion • Provision of 175-200mm lime treated Gravel Subbase, • Laying of 150mm thick Cement treated gravel base • Laying of 50mm thick “super-pave” Asphalt Concrete Surfacing to the full width of the carriageway • Placing a single surface dressing on carriageway using 10/14 mm chippings • Placing a double surface dressing on shoulders using 14/20 chippings and 6/10 chippings • Construction of pipe culverts and other drainage works • Construction of several major drainage structures. 	Materials Engineer	<ul style="list-style-type: none"> ▪ Assisting the RE in overall management of project ▪ Quality control of all materials used in the project. ▪ Training of graduate Engineers
4	Preliminary and Detailed Engineering Design of 5No Roads within	June 2014-	Kisumu Urban Project (KUP)	<ul style="list-style-type: none"> • Traffic Survey • Materials Investigation and pavement Design • Geometric Study 	Team Leader/ Materials	<ul style="list-style-type: none"> ▪ Coordination of all the aspects of the study ▪ Materials sites investigation and

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	Kisumu City to bitumen standard	Nov 2014		<ul style="list-style-type: none"> EIA study Hydrological study and drainage design Economic Evaluation and analysis 	Engineer	design <ul style="list-style-type: none"> Pavement design Preparation of Engineers Cost Estimates and BoQs Preparation of the tender documents
5	Construction Supervision of Loruk-Barpelo Road (B4) Section- (Baringo County)	August 2011-June 2014	Kenya National Highways Authority (KeNHA)	<ul style="list-style-type: none"> Project Value – Ksh 5.8 Billion Provision of 175-200mm lime treated Gravel Subbase, Laying of 150mm thick Cement treated gravel base Laying of 50mm thick “super-pave” Asphalt Concrete Surfacing to the full width of the carriageway Placing a single surface dressing on carriageway using 10/14 mm chippings Placing a double surface dressing on shoulders using 14/20 chippings and 6/10 chippings Construction of pipe culverts and other drainage works Construction of several major drainage structures. 	Deputy Materials Engineer	<ul style="list-style-type: none"> Reporting to the Materials Engineer, Eng. Joseph Barasa Recommending to the RE through the Materials Engineer on approval/disapproval of works. Supervision of the Contractors works on Trial and Main Road works Compiling Quarterly and Monthly Progress Reports Training of Junior Graduate Engineers on quality control and material testing
6	Construction Supervision of Chemususu Dam Project (Baringo County)	Jan 2011-August 2011	National Water and Pipeline Corporation	<ul style="list-style-type: none"> Project value – 4.8 Billion Proposed Chemususu Dam is a flexible embankment Dam located in Koibatek District, Rift Valley Province. The Dam is 45m high and intended to create a reservoir of 12.5 Million m³ of water that is to be the source of water for the Chemususu source works, which is planned to produce 35,000 M³/day of water for South Baringo area 	Resident Engineer-Materials	<ul style="list-style-type: none"> Recommending to the RE on approval/disapproval of works. Identifying Suitable materials to be used for various sections of the Dam Supervision of the Contractors works on Trial and Main embankment Compiling Factual Materials Reports (3No) Training of Junior Graduate Engineers on quality control and

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						material testing
7	Feasibility Study for a One Stop Border Post (OSBP) at Kagitumba/Mirama Hills (Rwanda/Uganda) Border	September 2008 to February 2009	DFID	<ul style="list-style-type: none"> The main features of the assignment was surveying of the border post; drawing up plans and cost estimates for a fully functioning juxtaposed OSBP; Quantifying current and projecting future traffic volumes; general assessment of political, social and environmental impacts on the planned activities and any requirement for environmental assessment 	Traffic Engineer	<ul style="list-style-type: none"> Reporting to the Project Director/Team Leader. Carried a 7 day traffic count at the border post. Analysis of traffic count data Projection of traffic volume for a 15 year period Made recommendations on the optimum design to maintain and manage traffic flow of international and local cross border traffic. Presentation of the traffic report to the stakeholders workshop held in Kigali.
8	Design Review of Mpulungu-Mbala-Nakonde-Kanyala Road project (Zambia-Northern Province)	May 2008 to September 2008	Road Development Agency (RDA).	<ul style="list-style-type: none"> Alignment (250 Km) Soil sampling and testing, Identifying, Sampling and Testing all the Materials sites along the alignment, identifying, Sampling and testing all the potential Quarry sites along the alignments 	Materials Engineer	<ul style="list-style-type: none"> Reporting to the Project Engineer. Supervision of all the tests done in the laboratory including Carlifonia Bearing Ratio test for soaked samples, Atterberg limit tests, Moisture Content Maximum Dry Density Relationship tests and Particle Size analyses test. Interpretation of all the tests results done in the laboratory. Supervision of the identification, Mapping and sampling of the all the material sites and the entire

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						quarry sites. <ul style="list-style-type: none"> • Preparation of all the Materials report including the alignment report, Materials Sites report and factual materials report. • Drawing up a work schedule for all the activities done in the laboratory and in the field. • Performing all the managerial duties on sites including hiring of the support staff and negotiating with the community on behalf of our company and the client
9	Rehabilitation of the Maji ya Chumvi-Miritini Road (A109) Construction Supervision Project	September 2007 to May 2008	Ministry of Roads and Public Works	<ul style="list-style-type: none"> • Construction of the Main Carriage way starting from Earthworks Laying of Sub-grade layer, laying of improved sub-base layer, laying of Dense Bitumen Macadam (DBM) as the Road Base, laying of Asphalt Concrete and single seal surface dressing. Construction of the loop roads and the service roads. Laboratory testing of all the materials used in the construction of the road. Construction of Drainage Structures both on the Main Carriage way and the loop roads. Marking of the road and all other works related to road furniture. 	Assistant Engineer	<ul style="list-style-type: none"> ▪ Reporting to the Resident Engineer. ▪ Supervision of the laying of the road layers including the sub-base, Road Base, the Asphalt Concrete and the Single Seal surface dressing. ▪ Calculation of Quantities for actual work done. ▪ Preparation of monthly progress report. ▪ Analysis and reporting all the laboratory tests done in the lab both for soil and asphalt.
10	Construction Of Houses at Windsor Housing Estate	June 2007 to Sept 2007	Nairobi City Council	Construction of 36 Units of Housing each valued at Ksh 18 Million	Assistant Project Engineer	<ul style="list-style-type: none"> ▪ Reporting to the Project Engineer. ▪ Coming up with the cross-section of every house using the

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						Civil 3D Software. <ul style="list-style-type: none"> ▪ Calculating the Earthwork quantities for the Project and designing the foundation structure for each house.
11	Northern Corridor Transport Improvement Project- Expansion of Passenger Terminal Facilities at Jomo Kenyatta International Airport	November 2006 to January 2007	Kenya Airports Authority (KAA)	Testing of the soil and rock materials used in the above project.	Student Attachee	<ul style="list-style-type: none"> • Laboratory testing of the samples
12	Sondu Miriu Hydropower Project (SSMHP)	July 2006 to Sept 2006	Kenya Electricity Generating Company (KenGen)	Construction of Water Intake structure, construction of the penstock line, Main power house structure and outlet channel,	Student Attachee	<ul style="list-style-type: none"> • Reporting to the Civil Engineer. • Participated in the supervision of the construction of crossing structures, penstock line, power house and the outlet structure. • Mortar quality control. This was done along the penstock in the construction of Masonry wall

15. Certification

Eng. Luke Ouma Wende, MIEK

Date : July 2019