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PERSONAL DETAILS.

Date of Birth	:	21 st April, 1979
ID Number	:	21719941
Sex	:	Male
Nationality	:	Kenyan
Marital Status	:	Married
Languages	:	English and Swahili
Religion	:	Christianity

I am a dynamic, innovative and self-motivated leader. I work well with people and inspire my team to perform beyond set targets. I am very organized, punctual to deadlines, creative, committed to making a difference. I embrace diversity and I am excited by challenges. I am highly flexible, perform my duties with minimum supervision, have high level of integrity, and respect to those in authority.

CAREER OBJECTIVES

1. To use the knowledge acquired in and out of college in order to achieve organizational goals/ objectives and to improve the organizations corporate image through matching the organizational capabilities to Kenya's economic blueprint, vision 2030.
 2. To assist and motivate fellow colleagues both senior and junior to attain high levels of performance and maximize the share value of the organization.
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EDUCATIONAL BACKGROUND

<u>Period</u>	<u>Institution Attended</u>	<u>Qualifications Attained</u>
Apr - Oct 2010	United Nations University Iceland	Post Graduate Diploma in Environmental Studies
2004 – 2006	University of Nairobi P.O Box 30197-00100 NAIROBI, Kenya	Master of Science in Meteorology
1999 – 2003	University of Nairobi P.O Box 30197-00100 NAIROBI, Kenya	Bachelor of Science in Meteorology; First Class Honors.
1994 – 1997	Kyanguli Sec School P.O. Box 187 MACHAKOS, Kenya	Kenya Certificate of Secondary Education (K.C.S.E) attaining a mean grade of B plain.

TRAINING IN COMPUTER APPLICATIONS

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|-----------------|--|
| ❖ Ms Windows | ❖ Curve Fitting Expert |
| ❖ Ms Word | ❖ SPSS |
| ❖ Ms Excel | ❖ Systat |
| ❖ Ms Powerpoint | ❖ Instat |
| ❖ MS Access | ❖ Climlab |
| ❖ Page Maker | ❖ Programming (Visual Basics, FORTRAN) |
| ❖ Internet | |
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PROFESSIONAL COURSES ATTENDED

- 4th to 15th September 2017:** Training on *Spatial data analysis using quantum GIS*, held at Prideinn Lantana Hotel in Nairobi.
- 26th June – 14th July 2017:** Training on *Strategic Environmental Assessment using spatial decision support tools*, held at University of Twente, Netherlands
- 1st – 2nd Feb 2017:** Training on *Intellectual property protection*, facilitated by Kenya Industrial Property Institute (KIPI) and held at Olkaria Geothermal Spa in Naivasha
- 22nd Aug – 2nd Sept 2016:** Attended a 2 weeks training course on *Integrated Land and Water Information System (ILWIS)*, facilitated by Kismart Hena Ltd and held at PrideInn Lantana Hotel in Nairobi.
- 7th – 11th Dec 2015:** Training course on *Occupational/Environmental noise and human vibration* facilitated by KEBS in conjunction with Bruel & Kjaer and held at Mombasa.
- 5th - 9th Oct 2015:** Training on *Microsoft office project 2013*, facilitated by Computer Pride and held at the Olkaria Geothermal Spa in Naivasha.
- 18th – 21st Aug 2015:** Report writing and presentation skills training facilitated by Altima Africa and held in Nairobi.
- 9th-27th September 2013:** Attended a three weeks course on *noise spread and air quality dispersion modeling*, facilitated by NH2 Dispersion Sciences from Sydney, Australia and held at the Geothermal Training Centre at Olkaria, Kenya.
- 8th -11th April 2013:** Course on *Training Needs Assessment (T.N.A) and Return on Investment (R.O.I)*, facilitated by Exceptional Management Consultants and held at Cathay Hotel in Nakuru, Kenya.
- 24th Sept – 5th Oct 2012:** A two weeks course on *best practices in environmental assessment of projects and programmes*, facilitated by SETYM International and held at Kuala Lumpur, Malaysia
- 30th July – 10th August 2012:** A two weeks training on *Results-based management implementation and performance indicators*, facilitated by SETYM International and held at Morendat Training and Conference Centre, Naivasha
- 24th-25th July 2012:** 2 days course on *leading for optimal performance* facilitated by Raiser Resource Group and held at Sawela Lodge in Naivasha, Kenya
- 16th - 20th July 2012:** A one week course on *IRCA Environmental Management System (EMS) Lead Auditor course*, facilitated by Bureau Veritas and held at ABC Place, Nairobi.
- 7th - 11th November, 2011:** One week course on *leading high performance teams* facilitated by Raiser Resource Group and held at Naivasha, Kenya.
- 1st to 22nd November 2009:** A three week *short course IV on Exploration for Geothermal Resources* conducted by United Nations University Geothermal Training Programme (UNU-GTP), held at Naivasha, Kenya.

- 27th Nov – 11th Dec 2009:** A three week training course on *Geo-Database Development and management: Using ARC GIS 9.3* held at the Regional Centre for Mapping of Resources, Kasarani-Nairobi.
- 8th - 26th June 2009:** A three week course on *Environmental Impact Assessment and Audit* held at Kenya National Cleaner Production Centre – Nairobi.
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RELEVANT WORKSHOPS/SEMINARS ATTENDED

- 25th Nov 2016:** Participated in the 2nd *Environment Institute of Kenya (EIK) Central Region forum* held at Outspan hotel in Nyeri.
- 31st Oct – 4th Nov 2016:** Participated in the 6th *African Rift Geothermal Conference (ARGE-C6)* held at Addis Ababa in Ethiopia.
- 26th June 2014:** Participated in the *Nationally Appropriate Mitigation Action (NAMA) validation workshop* held at Sarova Panafric hotel in Nairobi.
- 1st & 2nd November 2011:** Participated in the workshop on *developing and trading of carbon credits* held at Hilton Hotel in Nairobi.
- 23rd September - 2nd October 2008:** Participated in the *water resource capacity building, surface water modeling workshop* held at ICPAC, Nairobi.
- 16th January 2007:** Attended the Kenya-Japan Exchange seminar on *Marine –Earth Science: “Cooperating Towards a Better Planet Earth”*, held at the Embassy of Japan in Kenya.
- 16th - 19th October 2006:** Attended the *1st National Nile IWRMnet capacity building training workshop on the role of integrated water resources management (IWRM) in ecological conservation*, organised within the framework of WMO/ICPAC Data Rescue Project and held at the Institute for Meteorological Training and Research (IMTR) Nairobi.
- 29th – 30th May 2006:** Participated in the *National Hydrological Workshop* held at Kenya Wildlife Service (KWS) Training Institute, Naivasha.
- 8th – 12th May 2006:** Attended a workshop on “*Data Processing and Management*” held at IGAD Climate Prediction and Applications Centre (ICPAC), Nairobi.
- 31st Oct – 4th Nov 2005:** Participated as an exhibitor in the 11th *World Lakes International Conference (ILEC)*, held at KICC- Nairobi.
- 11th – 14th Oct 2005:** Presented a paper on “*Assessing the Vulnerability of Water Resources to Climate Change and Variability in Lake Victoria*” to the Young Water Professional Workshop, held at KCTT, Mbagathi-Nairobi.
- 23rd Nov - 26th Nov 2004:** Participated/Presented in the Third Workshop on “*Drought and Low Flow Analysis*”, held at Drought Monitoring Centre (DMCN) Nairobi.
- 19th July - 21st July 2004:** Attended/Participated in the First International Pan Africa Start-Pages Workshop on “*African Palaeoperspectives, Linking the First to the Present and the Future*”, held at Nairobi Safari Club Hotel, Lillian Towers, Kenya.
- 19th -21st June 2004:** Attended/Participated in The 2nd Workshop on “*Drought And Low Flow Analysis Component*”, held At Borg El Arab Resort, Alexandria, Egypt.
- 23rd Sept – 25th Sept 2003:** Participated in the First Workshop on “*Weather Related Risks and the Role of Actuarial Valuation*”, held at Chiromo Campus, Nairobi.
- 25th Aug - 28th Aug 2003:** Participated in the First Workshop on “*Drought and Low Flow Analysis Component*”, held at Landmark hotel, Nairobi.
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MEMBERSHIP TO PROFESSIONAL ASSOCIATIONS

- i. An active member of the Environmental Institute of Kenya (EIK), member no. 2237

- ii. A NEMA registered Environmental Impact Assessment/Audit (EIA/EA) lead expert no. 2237
 - iii. An active member of Geothermal Association of Kenya (GAK), Member no. I-230
 - iv. Member of International Geothermal Association (IGA)
 - v. Member of the Kenya Meteorological Society.
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LANGUAGE SKILLS

Language	Reading	Speaking	Writing
English	Good	Good	Good
Swahili	Good	Good	Good
Mother tongue	Good	Good	Good

ACHIEVEMENTS

- Registered EIA/EA Lead Expert with the National Environment Management Authority (NEMA), Member number 2237.
 - Environmental Management System (EMS) and Quality Management System (QMS) ISO Auditor with KenGen
 - Part of Consultant team that undertook detailed Geoscientific study of Bayuda desert in the Republic of Sudan from 22nd March to 30th April, 2012
 - Thorough knowledge and experience in conducting Environmental and Social Impact Assessment Studies and Environmental audits
 - Thorough knowledge in simulating noise spread and air quality dispersion modeling using models such as SoundPlan, Noise10, Aermid, Calmet and Calpuff
 - Thorough knowledge in use of Computer applications and programming.
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SPECIAL APPOINTMENTS

- Project Implementation Team (PIT) member for 83.3MW Olkaria I Unit 6 geothermal project
 - Project Implementation Team (PIT) member for the 165.4MW Olkaria V geothermal project
 - Project Implementation Team (PIT) member for Akiira geothermal drilling project
 - Project Implementation Team (PIT) member for Olkaria civil works and rehabilitation of degraded sites
 - Project Implementation Team (PIT) member for renovation of Geochemistry and Environment Laboratories
 - Appointed as a peer educator at Olkaria business area.
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WORK AND RESEARCH EXPERIENCE

(1) November 2008 to date: I am currently the Chief Environment Management Officer, Kenya Electricity Generating Company Limited (KenGen). I have risen through the ranks

from Environmental Officer III (Nov 2008 – Sept 2009), Senior Environmental Scientist (Oct 2009 – Nov 2014), Principal Environmental Scientist (Dec 2014 to Feb 2018), and Chief Environment Management Officer (March 2018 to date)

Key Responsibilities:

- **Ensure KenGen operations are environmentally sustainable** in consistent with national and internal standards, statutory and regulatory requirements, relevant international treaties/conventions that Kenya is a signatory to and the requirements of Development Partners such as the World Bank.
- **Environmental monitoring** of noise levels, weather parameters, hydrogen sulphide concentrations, Lake Naivasha water levels, elements of environmental significance in soil, water & vegetation within Olkaria and Eburruu geothermal fields. , monitoring of weather parameters, and. Noise mapping at discharging wells and collection of baseline data including biodiversity assessment of proposed well sites. Ecological monitoring of flora and fauna within the Olkaria and Eburru geothermal field, and assessment of any significant effects due to geothermal operations.
- **Coordinate/Conduct Environmental and Social Impact Assessment (ESIA) Studies for proposed projects and acquire NEMA license.** Some of the ESIA studies conducted include: 60 MW Eburru geothermal project, Eburru quarry, Construction of Geothermal Spa and Demonstration Centre at Olkaria, construction of Geothermal Complex, construction of modern workshops at Olkaria, 70 MW Olkaria I Unit 6, 140 MW Olkaria V, Resettlement facilities for Olkaria IV Project Affected Persons (PAPs), Rehabilitation of Olkaria I Units 1-3, and Containment of asbestos. I am currently involved in the ESIA for the proposed modular geothermal power plants project.
- **Renewal of ESIA licenses,** for instance renewal of EIA license for the 140MW Olkaria V project, renewal of EIA licence for 60MW Eburru geothermal project among others.
- **Projects appraisals and Implementation of Environmental and Social Management Plan (ESMP)** such as adherence to EIA license conditions, preparation of KEEP quarterly ESMP implementation status reports for submission to JICA/MoEP/WB, preparation of ESMP for small projects that do not require an EIA, Follow up on implementation of ESMP for existing projects, conduct impromptu EHS audits. Appraisal missions for JICA/World Bank/EIB funded projects such as Olkaria V, Olkaria IV etc
- **Coordinate/conduct environmental audits and prepare/implement corrective action plans:** Coordinate initial environmental audits conducted by external parties and audits by ERC and prepare/implement corrective action plans. Conduct annual statutory environmental audits and submit reports to NEMA. Prepare action plans for improvement orders issued by NEMA.
- **Social reforestation and catchment rehabilitation:** Establish and manage tree nurseries, monitor survival rate of issued seedlings, conduct environmental awareness programs, monitor rehabilitation of degraded sites, organize for tree planting within the catchment area, removal of invasive plant species within Hell's Gate National Park.

- **Stakeholders Management:** Enhance strategic partnership with KWS through implementation of KenGen-KWS MoU, participation in the development of Integrated Ecosystem Management Plan for Hell's Gate National Park, participation in biodiversity conservation activities. Subscription of KenGen to Lake Naivasha Riparian Association (LNRA) and Lake Naivasha Water Users Association (LANAWRUA).
- **Involvement in the implementation of Resettlement Action Plan (RAP)** to pave way for construction of Olkaria IV geothermal project.
- **Cumulative impact assessment** such as Environmental modeling of noise spread and air quality dispersion due to geothermal operations.
- **Conduct QMS/EMS ISO audits** at various KenGen facilities in line with corporate audit programme.
- **Steer research and innovation in the environment field.** For instance, steered research on air quality and precipitation chemistry, impacts of geothermal operations to livestock at Iseneto area, community participatory research on impacts of geothermal operations to agricultural production in Eburru area.
- **Participation in geoscientific exploration studies and consultancy services.** For instance, was part of the team that conducted detailed geoscientific study of Bayuda Desert in Northern Sudan (2012) and geothermal exploration at Eburru-Badlands-Kongoni area in Kenya (2016).
- **Offer advisory role on environmental requirements** to relevant parties such as the well siting committee, project implementation teams (PIT).
- **Conduct baseline environmental assessment** for proposed well sites prior to drilling.
- **Administrative duties**

(2) **1st Aug 2006 to Oct 2008: Senior Technologist, Department of Meteorology at the University of Nairobi.**

Key Responsibilities:

- Involvement in research and consultancy at the University
- Design of practical and teaching materials
- Management of the departmental library
- Assisting undergraduate/postgraduate students in research projects and in meteorological data management
- Administrative duties

(3) **2nd June to 30th November 2005, Intern at United Nations Environment Programme (UNEP), Division of Early Warning and Assessment (DEWA) -Water Assessment Unit**

Key Responsibilities:

- Gathering resource information related to environment from various sources.
- Review of draft manuscript on environmental issues before publishing e.g input in the publication on "Assessment of Vulnerability of Water Resources to Climate Change- UNEP 2005"
- Organizing for events such as the World Environment Day.
- Report writing

- Exhibiting in workshops/conferences on behalf of UNEP.
- Any other duty as directed by my supervisor.

(4) March to September 2004, Research Assistant for project funded by AIACC (Assessments of Impacts and Adaptations to Climate Change).

Key Responsibilities:

- Data collection, analysis and interpretation
- Report writing

(5) December 2003-February 2004, Research Assistant for project funded by National Council of Science and Technology (NCST) entitled “Using Rainfall data to predict droughts and floods in Kenya”.

Key Responsibilities:

- Data collection, analysis and interpretation
- Report writing

(6) 5th Aug 2003 – 1st Feb 2004, Research Assistant for project funded by African Centre for Meteorological Applications and Development (ACMAD)

Key Responsibilities:

- Data collection, analysis and interpretation
- Report writing

PUBLICATIONS

- i. Ndeti, C.J., 2016: Opportunities for direct utilization of geothermal energy in Eburru area, Nakuru County in Kenya. Proceedings, 6th African Rift Geothermal Conference (ARGEO-C6) held at Addis Ababa, Ethiopia, 2nd to 4th November 2016.
- ii. Ndeti, C.J., 2016: Air quality dispersion modeling for the existing and proposed geothermal projects at Eburru geothermal field, Nakuru County. Proceedings, KenGen G2G Technical Seminar 2016. Safari Park Hotel, Nairobi, June 28th – July 1st, 2016.
- iii. Ndeti, C.J., 2015: Assessment of air quality for development options at Olkaria geothermal field in Kenya. Proceedings, Geothermal Resources Council annual meeting held at Reno-Nevada, USA, 20th – 23rd September, 2015.
- iv. Ndeti, C.J., 2015: Regulatory frameworks and their implications in geothermal development projects - the case of Kenya. Proceedings, World Geothermal Congress 2015 held at Melbourne, Australia, 19th – 25th April, 2015.
- v. Ndeti, C.J., 2010. Noise assessment and hydrogen sulphide dispersion at Olkaria Geothermal Power Plant, Kenya. UNU-GTP, Iceland, Reports 2010 Number 23, pp 441-462

- vi. Muthama, N.J., Manene, M.M. and **Ndetei, C.J.**, 2008: Simulation of decadal precipitation over Nairobi in Kenya. Sultan Qaboos University (SQU) Journal for Science, 2008.
- vii. **Ndetei, C.J.**, Opere, A.O. and Mutua, F.M., Sept 2007: Flood frequency analysis in Lake Victoria basin based on tail behaviour of distributions. Kenya Meteorological Society Journal, Sept. 2007, Vol.1 Ser.1, pp 44-54.
- viii. **Ndetei, C.J.**, June 2006: A Comparative analysis of the performance of flood frequency distributions in Lake Victoria basin in Kenya. MSc. Thesis, University of Nairobi.
- ix. **Ndetei, C.J.**, June 2003: The analysis of functional distribution of rainfall in Kenya. BSc. Project, University of Nairobi.

REFEREES

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