

PERSONAL INFORMATION

Kay Nyaboe Nyakundi

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Gender: Female | Nationality Kenyan

WORK EXPERIENCES

September 2019 – To date
January 2017 – August

Tutorial Fellow /Part time Lecturer -Renewable energy Technology-(Geothermal, Solar, Hydro Energy, Petroleum Technology, Energy Economics, Energy Auditing, Energy efficiency and conservation)

Kenyatta University
Jaramogi Oginga Odinga University

Duties and Responsibilities :

- To teach and assess students at undergraduate level in and reviewed from time to time by the Head of Department.
- Setting exams and continuous assessment for areas allocated by the Head of Department.
- To assist in the development of learning materials, preparing schemes of work and maintaining records to monitor student progress, achievement and attendance.
- To maintain own continuing professional development.
- To engage with the broader scholarly and professional communities.

August 2011 – September 2014

Assistant Sales Engineer
Davis & Shirliff in Nairobi, Kenya

Duties and Responsibilities:

- Provide Technical Support, consultancy, specifications, and solutions to clients that buy our products i.e Water pumps, Borehole equipments, Solar & Power Products, Water Treatment Equipment and Swimming pool Equipment.
- Coordinating project activities from start to finish. Design of Solar and wind systems.
- Achieving sales targets by following up on business and growing it.
- Kisii Branch administrator – Run monthly and weekly financial reports, banking or receipts and payments, debt collection reconciling finances.
- Communication Centre – internet and online sales, manage communication from customers, handling the social media platform for example Twitter, blog and LinkedIn.

May 2011 – August 2011

Administrator
Kenya Society of the Anaesthesiologists in Nairobi, Kenya.

Duties, Responsibilities and skills acquired :

- Assisting in Continuous Medical Education (CME) preparations, assisting the editor with compilation of material for quarterly newsletter.
- Organizing the 19th Annual Scientific Conference 2011 held at Kisumu Hotel.
- Day to day correspondence to members and other stakeholders which gave me knowledge on bulk sms and email blasts.

Internships
March 2016
June - September 2009

Attaché
KenGen Olkaria Plant (Naivasha) in Nairobi, Kenya

Duties, Responsibilities and skills acquired :

- Daily monitoring of power stations

- Geothermal development stages, Reservoir and steam field development and management
- Wellhead technology and generation
- Binary power plants, cycle configuration and operations
- Technical report writing.

EDUCATION AND TRAINING

May 2020- December 2023

PhD Physics (Energy Including Renewables)

Partnership for Skills in Applied Sciences, Engineering & Technology – Regional Scholarship Fund (PASET – RSIF) at The University of Nairobi, Kenya
- On going

October 2014 – October 2016

Master of Science – Energy Engineering (Good B+ (78 Points))

Pan African University Institute of water and energy sciences including climate change (PAUWES) in Tlemcen, Algeria

Knowledge and Skills Acquired :

- Wholesome knowledge on all renewable energy technologies.
- Energy efficiency, hybrid systems, smart grid and demand side management.
- Technical performance and assessment.
- Energy economics and energy for sustainable developments.
- Project design management and Extra-and Intra-prenurship.
- Knowledge about Gender and Human Rights

August 2005 – December 2010

Bachelor of Science - Energy Engineering (Second Class – Upper Division)

Kenyatta University Nairobi, Kenya

Knowledge and Skills Acquired :

- Energy auditing, conservation and management.
- National energy and planning and policy and rural electrification.
- Computer Aided Design AUTOCAD.
- Environment Impact Assessment.
- Knowledge communication and critical and creative skills.

PERSONAL SKILLS

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English and Swahili	C1/2	C1/2	C1/2	C1/2	C1/2
French	A1/2	A1/2	A1/2	A1/2	A1/2

Levels: A1/2: Basic user - B1/2: Independent user - C1/2 Proficient user
Common European Framework of Reference for Languages

Communication skills

- Excellent intercultural communication skills acquired while living and working in different countries and within diverse socio-cultural/-economic environments in Kenya(Western part), Africa, and Europe;
- Very good communication skills gained studies in the module communication and networking and through my experience as sales engineer
- Talented in communication through public speaking and mentoring activities(Mentor for my juniors at PAUWES)

- Job-related skills**
- A sound academic background in integral theory and practice, including the application of Integral approaches to water and energy nexus including climate change.
 - Good command of quality control processes.
- Computer skills**
- Good command of Microsoft Office™ tools, MS Visio and Navision ERP system.
 - Hands on experience on engineering software's namely PVSYSTS, PV SOL, EES, RETScreen, AZTEC, HOMER, Kaizen applications.

ADDITIONAL INFORMATION

- Publications**
- Article on ANSOLE e- magazine 2016 title "PAUWES students in Germany - Football, Solar Cookers, ICERE Event".
 - Potential for Organic Rankine Cycle Plants in Kenya – Master's Thesis, PAUWES repository

- Conferences/ Workshop or seminars**
- International Symposium: State of the Art – Challenges and Trends in Energy and Water in Africa by Pan African University Institute of Water and Energy sciences (including Climate Change) held on 5-8th May, 2015.
 - Summer School workshop at Institute for Technology and Resources Management in the Tropics and Subtropics (ITT) Cologne, Germany 2015.
 - ICERE conference at Munich, Germany 2016.

- Honours, Achievements and awards**
- Awarded PhD scholarship by PASET - RSIF to Study PhD Physics (Energy Including Renewables) at The University of Nairobi May 2020 to December 2023.
 - Awarded master scholarship by African Union to persue Master of Science Energy Engineering at PAUWES in Tlemcen, Algeria October 2014 to October 2016.
 - Awarded master thesis scholarship by United Nations University – Geothermal Training programme April – June 2016 Reykjavik, Iceland **Topic** "Potential for Organic Rankine Cycle plants in Kenya – Modelling with EES and pre-feasibility study".
 - Winner of the first Science Slam titled "Analogy between a biogas plant and human being" presented on a workshop organized by BMBF –PAUWES on research agenda at Tlemcen, Algeria - Dated 21st October, 2015.
 - Awarded and commended for exceptional work done by Davis & Shirtliff in a solar street lighting project for Wajir, Kenya - Dated June, 2014

- International scientific/professional Memberships**
- African Network for Solar Energy (ANSOLE)
 - Association of Energy Professionals Eastern Africa (AEPEA)
 - Women in Geothermal (WING)

References

Lúdvík S. Georgsson, Director
United Nations University - Geothermal Training Programme, (UNU-GTP),
 Orkustofnun, Grensásvegi 9, IS-108 Reykjavík, Iceland, **Tel:** +354 569 6000, **Fax:** +354 568 8896,
E-mail: lsq@os.is or unugtp@os.is

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