



Solomon Joseph

Gender: Male

Nationality: Kenyan

Date of Birth: 23rd February, 1993



Kenya Bureau of Standards, South C, Popo Road, off Mombasa Road, P.O Box 54974 - 00200, Nairobi, Kenya



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About me: An aspiring professor of Physics, with strong foundation in physics and mathematics; Sensitive and dedicated individual with a solid commitment to scientific research and innovation. Able to identify knowledge gaps and generate ideas through research to address and fill the gap. My career goal is to be part of current and future researchers and practical problem solvers. Honest and accountable individual with no criminal record, committed to keep high level of integrity as enshrined in chapter six of the Kenyan Constitution.



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STUDIES APPLIED FOR

PhD in Physics

WORK EXPERIENCE

METROLOGIST - PHYSICIST – KENYA BUREAU OF STANDARDS (01/08/2019 – CURRENT – Nairobi, Kenya)

Metrology Department, Photometry and Radiometry Laboratory, Kenya Bureau of Standards, Popo Road, Off Mombasa Road, P.O. Box 54974, 00200, Nairobi, Kenya.

Duties: Realization of the S.I Unit (Candela), Dissemination of the S.I Unit to Consumers (Industries, Manufacturers, Hospitals, Research Laboratories, etc.), carrying out research in Photometry, Radiometry, Colorimetry and Spectroscopy, drafting and development of calibration procedures, calculation and dissemination of Uncertainty of Measurements, and administrative work - Deputy Head of Laboratory.

info@kebs.org, www.kebs.org

GRADUATE ASSISTANT – PWANI UNIVERSITY (01/09/2016 – 31/07/2019 – Kilifi, Kenya)

Pwani University, School of Pure and Applied Sciences, Department of Physics, Mombasa -Malindi Highway; P.O Box 195 - 80108, Kilifi, Kenya

Duties: Lecturing Undergraduate, setting and moderating of CATs and examination, Supervision and marking of CATs and examination, setting and supervising of lab practical and marking lab reports, also helping in supervision of fourth year physics projects, responsible for all Physics Laboratory activities, collection and analysis of research data.

info@pu.ac.ke, www.pu.ac.ke |

EDUCATION AND TRAINING

12/09/2016 – 15/02/2019 – Pwani University, Mombasa -Malindi Highway; P.O Box 195, Kilifi, Kenya

MASTER OF SCIENCE IN PHYSICS

Thesis: Tuning the Morphological Formations and Optoelectronic Properties of Reduced Graphene Oxide Using Chitosan Biopolymer for High Power Semiconductor Applications.

Skills: Synthesis of Bio-Materials, Characterization using Optical Microscopy and UV-Vis Spectroscopy, Data Analysis using Microcal Origin Prof and imagej, Scientific report writing, oral presentation skills

Field of study: Natural sciences, mathematics and statistics: *Physics*

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10/09/2012 – 15/05/2016 – Pwani University, Mombasa -Malindi Highway; P.O Box 195, Kilifi, Kenya

BACHELOR OF SCIENCE (PHYSICS)

Majored in Material science, and did a project in synthesis and characterization of Bio-Polymer

Project: Extraction and Characterization of Chitosan from Marine Based Biomass Wastes – Squid Gladii

Field(s) of study: Natural sciences, mathematics and statistics: *Physics*

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LANGUAGE SKILLS

Mother tongue(s): Luhya

Other language(s):

LANGUAGE	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken production	Spoken interaction	
English	C1	C1	C1	C1	C1
Swahili	C1	C1	C1	C1	C1

Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user

DIGITAL SKILLS

Microsoft office (Word, Excel PowerPoint Outlook) Basics of Python Analysis tool (Matlab workbench R soft, Origin Pro) E-mail e social, USE OF LIMS (Laboratory Information Management System)

MANAGEMENT AND LEADERSHIP SKILLS

A leader who values respect and integrity, and can adapt to complex and changing environments with ease, handle tense and difficult interpersonal situations with empathy, neutrality, impartiality, and professionalism. Currently, I am the deputy head of Photometry and Radiometry Laboratory, Kenya Bureau of Standards.

COMMUNICATION AND INTERPERSONAL SKILLS

Experienced in interacting well with clients (students, colleagues, parents and stakeholders) in a clear and concise manner, expressing ideas accurately and ensuring professional communication is maintained with all the clients. Able to integrate and articulate issues, receive information and give feedback in a clear and concise manner both in oral and written English and Swahili, ensuring professionalism is maintained at all levels. These skills were acquired during my interaction times with students, colleagues and service consumers during dissemination of S.I Unit

ORGANISATIONAL SKILLS

A very organized individual with ability to juggle many duties at the same time ensuring efficient and smooth running of the institutions' day to day activities.

PROJECTS

Date: 05/01/2017 – 30/08/2017

Topic: Characterization Experienced and utilization of marine based squid wastes

About: Characterization and utilization of marine based squid wastes as biosensors and biomedical materials as marine waste management strategy in Kilifi County, supervised by Professor Gabriel Katana Gona, funded by Pwani University, where I was serving as the research assistant.

PUBLICATIONS

The Role of Bio-Extracted Reduced Graphene Oxide in the Crystallization Kinetics of Chitosan Bio-Polymer

Solomon Joseph, John Agumba, and Fanuel Keheze

<https://www.onlinescientificresearch.com/articles/the-role-of-bioextracted-reduced-graphene-oxide-in-the-crystallization-kinetics-of-chitosan-biopolymer.pdf> – 2021

Tuning the Band Gap Energy of Reduced Graphene Oxide Using Biopolymer Chitosan for High Power and Frequency Device Applications

Solomon Joseph, John Agumba, and Fanuel Keheze

<http://ivyunion.org/index.php/ajpse/article/view/1297> – 2019

● CONFERENCES AND SEMINARS

23/08/2021 – 27/8/2021 – Astorian Grand Hotel, Naivasha, Kenya

Uncertainty of Measurements Course organized by Kenya Bureau of Standards (KEBS)

22/02/2021 – 26/02/2021 – Kenya Bureau of Standards, Nairobi, Kenya

ISO/IEC 27001:2013 Information Security Management Systems (ISMS) - Implementation Course and Training of Trainers

13/08/2019 – 16/08/2019 – Kenya Bureau of Standards, Nairobi, Kenya

ISO/IEC 9001:2015: Quality Management Systems (QMS) - Implementation Course

03/07/2019 – 04/07/2019 – Bishop Stam Pastoral Centre, Masinde Muliro University of Science and Technology, Kamamega, Kenya

Exploring Biophysics Diversity for sustainable Industrial and Economic Development

● HONOURS AND AWARDS

21/11/2019

Masters of Science (Physics) – Pwani University

22/09/2016

Bachelor of Science (Physics) – Pwani University

● MEMBERSHIPS

01/01/2020 – CURRENT

Member of the Physical Society of Kenya, Membership number 126

● HOBBIES AND INTERESTS

Reading Scientific Journals and publications, travelling, listening to Music, playing/Watching Football, attending Scientific conferences/Seminars,

● INTERESTED AREAS OF RESEARCH

Medical Physics, Optical Therapy, Optoelectronics, Polymer Crystallization, Conjugated Polymers, Bio-polymers.

● DRIVING LICENCE

Class: B Dated: 21/05/2021 – 21/05/2024

● RECOMMENDATIONS

1. Dr. Fanuel M. Keheze – Lecturer and academic supervisor, Pwani University
Dr. Fanuel was my university lecturer and masters' thesis advisor/supervisor. We are still conducting research together.
Contact: f.keheze@pu.ac.ke – (+254) 722291913
2. Prof. Gona Gabriel Katana, – Academic Supervisor
I have known him for over 11 years now, Prof. Katana remains my mentor and academic father. He supervised both undergraduate and postgraduate projects
Contact: katana_gona@yahoo.com – (+254) 0757129742
3. Mr. Mutuku Samuel – Supervisor, Kebs
Mr. Mutuku is the current head of laboratory, Photometry and radiometry. I serve under him as his deputy.
Contact: mutukus@kebs.org – (+254) 722758687
4. Dr. John Agumba – Lecturer and Academic Supervisor
We are currently doing research together. He was my undergraduate and postgraduate lecturer and supervisor.
Contact: agumba.john@gmail.com – (+254) 0721835268