

CURRICULUM VITAE

Dr. Richard Kipkemoi Ronoh (PhD)



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Personal Data

Sex: Male

Religion: Christian

Marital Status: Married

Nationality: Kenyan

Career Objective

To participate in a reputable organization or institution, where my expertise and intellect would facilitate the realization of its mission and vision as I expand my scope in research, professional growth and training.

Education

Period	Institution	Level	Course	Major/Specialization
2015-2018	Kibabii University	Doctorate	PhD (IT)	Wireless Communication Technologies
2004-2006	Moi University	Masters	Technology Education	Electrical and Electronics Technology
1989-1992	Moi University	Bachelors	Technology Education	Electrical and Electronics Technology
1987-1988	Kericho High School	“A”	K.A.C. E, (3P, 1Sub)	Mathematics, Physics & Chemistry
1983-1986	Kericho High School	“O”	K.C.E, (Div.I)	Sciences

Professional/Working Experience

May 2024-to-date	Senior Lecturer Kibabii University Department of Computer Science
Feb. 2010-to-April 2024	Lecturer Kibabii University Department of Computer Science
Sept. 2007-to-Jan. 2010	Lecturer Eldoret Polytechnic Department of Electrical and Electronics Engineering
Jan. 1993-to-August 2004	Graduate Teacher Kabianga High School Department of Technical and Creative Arts

RESEARCH INTERESTS

- ❖ IoT
- ❖ Instrumentation
- ❖ HCI
- ❖ Artificial Intelligence
- ❖ Wireless Communication Technologies
- ❖ Digital Signal Processing
- ❖ Integrating Digital Technologies in Education
- ❖ Emerging Microprocessor Applications

POSTGRADUATE SUPERVISION

COMPLETED

- ❖ Roseline Wangui Nyamwamu (PhD)
 - Thesis Title: Simulating Augmented Reality: An Integrative Model Towards a Paradigm Shift on Competency Based Curriculum in Kenya (graduated, 9th graduation, 2024)
- ❖ Alphas Pyego Kakuko
 - Thesis Title: unveiling consumer choices: analyzing user behaviour on online market places to decode purchasing influences (graduated, 9th graduation, 2024)
- ❖ Agwenyi Christopher Andere (MSc.)

Thesis Title: A Unified Framework for The Integration of Blockchain Technology into Management of Academic Records in Public Universities in Kenya (Graduated, 8th graduation, 2023)

❖ Peter Simiyu Wamalwa (MSc.)

■ Thesis Title: E-Waste Management Model for Environmental Sustainability in Bungoma County, Kenya (Graduated, 7th graduation, 2022)

❖ Robert Masika (MSc.)

■ Thesis Title: Mapping Student Data Classification Algorithm Career Recommender Framework (Graduated, 6th graduation, 2021)

ONGOING-PhD in IT

❖ Mutai Joram Mutai

■ Thesis Title: A Maturity Alignment Model for Cloud Computing Transformation Based on Strategy and Technology (Final Thesis writing)

❖ Lilian Cherotich Ronoh

■ Thesis Title: “Block chain Based Model for Cereal Seed Verification and Traceability (Final Thesis writing)

❖ Wenani Francis Mwisaka

■ Utilization of collaborative Efforts between TVET Training Institutions and Industries to Augment Acquisition of Marketable Skills in Uganda (Data collection)

ONGOING-Master of Science in IT

❖ Enson Yegon

■ Thesis Title: Cloud Computing Security and Infrastructure as a Service for Sustainable learning Management platform in Public Universities, Kenya (Data Analysis Stage)

❖ Kezimana Aimé Angelo

■ Thesis Title: Telehealth Adoption Framework for Enhancing Access to Health Care in National Referral Hospitals in Burundi (Data Analysis stage).

Thesis Examined

❖ Rose Khamusali Okwemba (PhD)

■ Thesis Title: Enhancing the Application of Wireless Sensor Networks in Monitoring of Water Quality for Fish Farming

- ❖ Afwande Margaret Andeyi (PhD)
 - Thesis Title: Framework for Integrated Secure Health Care Data Management Using Blockchain Technology in selected Public Hospitals In Kenya
- ❖ Kosgey Festus Kipchirchir (MSc)
 - Thesis Title: Security Threats and Vulnerabilities Mitigation Model for Secure Student management Information System for Universities
- ❖ James Ekadakada Omasaja (MSc)
 - Thesis Title: A Framework for Resilient Computer Networks Dependability in Universities: A Case of Kibabii University
- ❖ Simiyu Jeremiah Prestone (Masters)
 - Thesis Title: Unstructured Supplementary Service Data Technology for Secure Web Based Electronic Voting System
- ❖ Patrick Oduor Owoche (Phd)
 - Thesis Title: Online Hotel Branding Based on The Dialogic Principles Of Internet Communications
- ❖ Kuria Jane Nyambura (Phd)
 - Modelling Perceived Usefulness Of Mobile Apps Based On Quality Factors Established by University Students”
- ❖ Benjamin H. Otieno (Masters)
 - Thesis Title: Computer Model for Fair Risk Scoring among Small Scale Farmers in Kakamega County, Kenya

CONFERENCES/SEMINARS/WORKSHOPS ATTENDED

- ❖ 22nd -24th May 2024: Participated in Quality Assurance & Competence Based Curriculum (CBC) Training by Kenya Universities Quality Assurance Network (KuQAn)
- ❖ 15th -16th Feb. 2024: Participated in Stakeholders’ Engagement and Validation Workshop for Reviewed Teacher Education Programmes, University of Eldoret, Kenya.
- ❖ 5th May, 2023: Postgraduate Students’ Supervision Workshop in Kibabii University
- ❖ 23rd -24th October, 2018: Participated in the Educational Workshop in Kibabii University: Enhancing learning Outcomes through the Application of 21st Century pedagogies in the provision of University Education and Embracing the New Competence Based Curriculum.
- ❖ Jan 23-24, 2014: Participated in the University Multiplication training Workshop on Curriculum Development and Review for Public Universities in Kenya: Implementation and Accreditation, held at MCU, MMUST, in Kakamega, Kenya.
- ❖ July 29th –August 1st 2008: Presented a paper on Challenges Facing youth polytechnics in Kenya at Moi University 4th Annual International conference on Resource Utilization for Sustainable

Growth and Development in the 21st Century.

- ❖ October 26th and 27th 2008: Participated in a Curriculum Development Workshop Organized by Marist International College, Constituent College of the Catholic University of Eastern Africa.

CERTIFICATIONS

- ❖ Licensed by TVETA as an assessor in Information Technology upto level 6.
- ❖ Licensed by TVETA as a verifier in Electrical and Electronics Technology upto level 6.

PUBLICATIONS

Publications at lecturer scale

BOOKS

- ❖ Analogue Electronics: Theory and Practice (2022) Kibabii University Press. ISBN 978-9966-59-060-2 by Dr. Ronoh, K.R, Dr. Mutai, W.K, Prof. Mbuguah, S.
- ❖ Digital Electronics (2020) Kibabii University Press. ISBN by Dr. Mbuguah, S., Dr. Ronoh, R. K. & Prof. Wabwoba, F.

Journal Papers
Publications at Senior lecturer scale

- ❖ Nyakongo, M. C., **Ronoh, K. R.** (2024). Assessing the Impact of Emerging Technologies on Teaching and Learning: A Review of Technology-Based Learning Environments. *INTERNATIONAL JOURNAL OF RESEARCH AND INNOVATION IN SOCIAL SCIENCE (IJRISS)* ISSN No. 2454-6186 | DOI: 10.47772/IJRISS/Volume VIII Issue IIIS July 2024/Special Issue on Education
- ❖ Kakuko. A. P., **Ronoh, K. R.**, Owoche, P. (2024). Assessing the influence of Product Page Design on Purchasing influence of Products In online Marketplaces
- ❖ Kirui, K., Mbuguah S. M., **Ronoh K. R.** (2024). Leveraging P2P Architecture and Semantic Web for Enhanced Resource Discovery *International Journal of Scientific Research in Science, Engineering and Technology* Print ISSN - 2395-1990, Online ISSN: 2394-4099
- ❖ Nyamwamu R. W., **Ronoh, K.R.** Etene, Y. (2024). XR Opportunities in the Competency Based Curriculum in Kenya
- ❖ Nyamwamu R. W., **Ronoh, K.R.** Etene, Y. (2024). Exploring Interactive Learning Approaches and Technology Integration in the Kenyan Education System

Journal Papers
Publications at lecturer scale

- ❖ Andere, A. C., **Ronoh, K. R.**, Otanga, D. A. (2023). Pitfalls Bedeviling Administration and Maintenance of Electronic Records in Kenyan Universities. *International Journal of Social Science and Information Technology*. Vol.6, issue 1 2023, ISSN: 2412-0294.
- ❖ Wafula M. P, Anselemo, I P, **Ronoh, K. R.**, Mbugua S. (2022). Impact of Predictive Analytics of Big Data in Supply Chain Management on Decision-Making
- ❖ Masika,R., **Ronoh, K. R.**, Kati,R. (2022) Classification Algorithm for Career Recommendation System. *International Journal of Computer Applications Technology and Research* Volume 11–Issue 04, 91-97, 2022, ISSN:-2319–8656 DOI:10.7753/IJCATR1104.1002
- ❖ Masika,R., **Ronoh, K. R.**, Kati,R. (2021) Extent of usage of collected student data in Career choice in Kenya. *IRE Journals* | Volume 5 Issue 6 | ISSN: 2456-8880
- ❖ Mutai, D., Ongeti, K., Kisilu, A. S., **Ronoh, K. R.** (2020). Influence of level of Trainers’ Competence on Information Communication Technology Towards Integration in Teaching and Learning of Engineering Courses in National Polytechnics in Kenya: *International Journal of Multidisciplinary and Current Educational Research (IJM CER)*, ISSN 2581-7027, Vol. 2(5), page 330-340 (2020).
- ❖ Mutai, D., Ongeti, K., Kisilu, A. S., **Ronoh, K. R.** (2020). Influence of level of Trainer’s Perception on Information Communication Technology Integration in Teaching and Learning of Engineering Courses in National Polytechnics in Kenya: *Information technology, Education and Society*, Vol. 17(1), 66-68
- ❖ Muyembe, B. A., Obukosia A. B., **Ronoh, K. R.** (2019). A Choice Dilemma in Selecting an Appropriate Research Design, *International Journal of Advanced Research in Computer Engineering & Technology (IJARCET)* Volume 8, Issue 8, August 2019, ISSN: 2278 – 1323
- ❖ **Ronoh, K.R.**, Mbugua, S. & Wabwoba, F., (2018). Factors Influencing the Selection of Mobile Phone among University Students in Kenya. *International Journal of Innovative Research and Advanced Studies (IJIRAS)* Volume 5 Issue 5 May 2018. ISSN: 2394-4404
- ❖ **Ronoh, K.R.**, Mbugua, S. & Wabwoba, F., (2018). Innovative Features Driving Mobile Phone Usage by Students in Kenya. *International Journal of Modern Trends in Engineering and Research (IJMTER)* Volume 05, Issue 1, [January– 2018] ISSN (Online):2349–9745; ISSN (Print):2393-8161
- ❖ Mutai, W.K., Wanami S., Kanyeki F., **Ronoh R.** (2018). Potential for Saving Electric Energy Consumption by Lighting Loads at Universities in Kenya through Application of Energy Saving Techniques. *International Journal of Modern Trends in Engineering and Research (IJMTER)* Volume: 5, Issue: 03, [March– 2018] ISSN (Online):2349–9745 ; ISSN (Print):2393-8161. DOI:10.21884/IJMTER.2018.5095.E06EC
- ❖ Rotich, P.K., **Ronoh, R.K.** and Mubichakani, J.M. (2018). Attitude towards Computers among Primary School

Teachers in Kenya: A Case of Siongiroi Divison, Bomet County. *International Journal of Engineering and Computer Science* ISSN:2319-7242, Volume 7 Issue 2 February 2018, Page No. 23596-23605, Index Copernicus Value (2015): 58.10, 76.25 (2016) DOI: 10.18535/ijecs/v7i2.13

❖ Mutai, W.K., Wanami S., Kanyeki F., **Ronoh R.** (2018).Level of Awareness of Energy Saving Measures of Electricity Users at Universities in Kenya. *International Journal of Engineering and Computer Science* ISSN:2319-7242, Volume 7 Issue 4 April 2018, Page No. 23875-23882 Index Copernicus Value (2015): 58.10, 76.25 (2016) DOI: 10.18535/ijecs/v7i4.13

❖ Koech, W.K, and **Ronoh, R.K.** (2018). Levels of Supply Chain Management in the Manufacturing Sector. *International Journal of Modern Trends in Engineering and Research (IJMTER)*. Volume: 5, Issue: 03, [March– 2018] ISSN (Online):2349–9745 ; ISSN (Print):2393-8161, DOI:10.21884/IJMTER.2018.5081.2VJMU

❖ Koech, W; **Ronoh K. R.**, (2016). Benefits of Supply Chain management in the manufacturing Sector. *International Journal of Science and Research (IJSR)* ISSN (Online): 2319-7064 Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

❖ Koech, W; **Ronoh K. R.**, (2016). Challenges Faced in the Implementation of Supply Chain Management in the Manufacturing Sector. *International Journal of Science and Research (IJSR)* ISSN (Online): 2319-7064 Index Copernicus Value (2015): 78.96 | Impact Factor (2015): 6.391

Publications at Assistant lecturer scale

❖ **Ronoh, K R**, Mutai, W., Koech, W., Kitainge, K (2014). Critical Factors Affecting Enrolment in Kenyan Youth Polytechnics In: *The International Journal of Science & Technoledege*. (ISSN 2321 – 919X)

❖ **Ronoh, K R.** (2014). Usage Patterns of Mobile Phones Amongst University Students in Kenya In: *International Journal of Science and Research*; Online E- Journal, ISSN: 2319-7064 www.ijer.net

❖ Koech, W., **Ronoh, K R**, Mutai, W., Kitainge, K (2014). Components of supply chain Management in the Manufacturing sector In: *International Journal of Scientific and Engineering Studies (IJSRES)*

❖ W Kiprotich, O Ogeta, C Wosyanju and **R K Ronoh** (2009). Electrical Safety challenges in the Kenyan Informal Sector: A Case Study of Eldoret Jua Kali In: *Journal of Agriculture, Pure and Applied Science and Technology (JAPAST)* vol.4 pp.27-31, (2009), Moi University press.

Languages

❖ **English**

❖ **Swahili**

Professional Memberships

2014-to-date: Institute of Engineering Technologists and Technicians (IET) Cert. No. 361

2011-to-date: Association for Computing Machinery (ACM)

2004-to-date: International Technology and Engineering Educators Association (ITEEA)

Referees				
Referee	Position	Organization	Telephone	Email
Dr. Wesley Mutai	CoD, Technology Education	Moi University	0722-861-636	Mutaikiprotich67@gmail.com
Prof. Samuel Mbugua	Director, Planning & Organization Performance	Kibabii University	0717176356	smbugua@kibu.ac.ke
Dr. Hosea Kiplangat	Dean, School of Education	University of Eldoret	0722486123	hoskiphokip@yahoo.com