

# CURRICULUM VITAE



**Dr. David Muchangi Mugo**

**Ph.D (Information Systems), MSc (Computer Science), MBA  
(Technology Management), BSc (Computer Science), CCNA  
Instructor, IBM Certified Big Data Instructor, ISO 27001:2013  
auditor, ISO 9001: 2015 auditor**

*Chairman, Academic Leader and Lecturer,  
Department of Mathematics, Computing & IT,  
University of Embu  
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## **Career Objective**

To become a distinguished Professor of Information Systems and to work whole heartedly to positively impact on the society for improvement of humanity and our environment

## 1. Personal Information

**Nationality:** Kenyan  
**Date of Birth:** 23<sup>rd</sup> April 1982  
**Home Address:** P.O Box 526-060100, Embu, Kenya  
**Marital Status:** Married  
**Languages:** Kiswahili: Excellent, English: Excellent, German: Good  
**National ID No:** 22526395  
**Passport No:** B213545

## 2. Brief Resume

Dr. David Muchangi Mugo, a Kenyan Citizen, is a PhD holder of Information Systems from Kenyatta University, Kenya. He has a Master's of Science (MSc) Degree in Computer Science from Technical University of Hamburg, Germany and a Masters of Business Administration (MBA) where he specialized in technology management from Northern Institute of Technology Management, Hamburg, Germany. Dr. David Mugo has been a lecturer for more than nine years and is currently lecturing at the University of Embu, Kenya. Additionally, he is the current Chairman, Department of Mathematics, Computing and Information Technology (MCIT), University of Embu. Further, he is the coordinator, Website and Electronic Repository at the University where he has propelled the University towards higher Universities' Webometrics Ranking. He is a married man and a father of two boys.

## 3. Education

**01/2013 – 12/2016:** Kenyatta University, Nairobi, Kenya

### *Doctor of Philosophy (PhD) in Information Systems*

*Courses Undertaken: Economic Analysis for Business Decisions (Grade: B), Statistics for Business I (Grade: A), Business Research Methods (Grade: A), Statistics for Business II (Grade: A), Data Analysis and Measurement (Grade: A), Strategic Information Systems (Grade: A), Advanced Topics in Information Systems (Grade: B), Seminar in Management Information Systems (Grade:*

*A), Independent Study in Information Systems (Grade: A)*

*Thesis Title: Mobile Technology Services and Performance of Deposit-Taking SACCOs in Kenya (Grade: B)*

*Date of Graduation: 16<sup>th</sup> December 2016*

**02/2013 - 06/2013:** Kenyatta University Cisco Networking Academy, Nairobi, Kenya  
*CCNA Instructors Course*

**10/2007 – 1/2010:** Hamburg University of Technology (TUHH), Germany  
*Masters of Science (MSc) in Computer Science specializing in Information and Media Technologies*

*Thesis Title: Connecting people using Latent Semantic Analysis for Knowledge Sharing*

*Date of Graduation: 27<sup>th</sup> January 2010*

*Grade: 2.3*

**10/2007 – 5/2010:** Northern Institute of Technology Management (NIT), Germany  
*Masters of Business Administration (MBA) specializing in Technology Management*

*Date of Graduation: 30<sup>th</sup> May 2010*

*Grade: 2.1*

**9/2002 – 4/2007:** Kenyatta University, Nairobi, Kenya  
*Bachelor of Science in Computer Science*

*Date of Graduation: 13<sup>th</sup> April 2007*

*Grade: First Class Honours*

**2/1997 – 11/2000:** Moi High School Mbiruri, Embu, Kenya  
*Kenya Certificate of Secondary School (KCSE)*  
*Grade: A- (Minus)*

**2/1988- 11/1996:** Kagumori Primary School, Embu, Kenya  
*Kenya Certificate of Primary Education (KCPE)*  
*Marks: 499/700*

#### **4. Employment History**

**02/2017 – To Date:** University of Embu  
*Duties: Lecturer in the Department of Mathematics, Computing and Information Technology*

##### ***University Responsibilities***

*Coordinator-Website and E-Repository*

*Chairman - Department of Mathematics, Computing and IT*

**4/2014- 01/2017:** University of Embu  
*Duties: Assistant Lecturer, Department of Mathematics, Computing and Information Technology*

##### ***University Responsibilities***

*Coordinator-Website and E-Repository*

*Chairman- Department of Mathematics, Computing and IT*

**03/2012 – 03/2014:** Kenyatta University  
*Duties: Assistant Lecturer in the Department of Computing & IT*

- 05/2011 - 04/2014:** Zetech University  
*Duties: Part-Time Lecturer in Computer Science*
- 01/2011 – 02/2012:** The Presbyterian University of East Africa, Kenya  
*Duties: Lecturer in the School of Computer Science*
- 01/2010 - 7/2010:** Warwick Business School, Coventry, United Kingdom  
*Duties: Consultant on eHealth for a European Commission*
- 4/2009 - 12/2009:** Grindaix GmbH, Aachen, Germany  
*Duties: Research on investigation of Latent Semantic Analysis (LSA) in connecting people for knowledge sharing*
- 8/2008 - 2/2009:** Körber Ag, Hamburg, Germany  
*Duties: Research on developing Knowledge Management Models*
- 4/2006 - 5/2007:** Mansoft Limited, Nairobi, Kenya  
*Duties: Software development (Payroll and Human Resources)*
- 5/2005 - 9/2005:** Kenya Railways Corporation, Nairobi, Kenya  
*Duties: Networking, programming, computer repair & maintenance*
- 1/2004 - 2/2005:** Emanex Computer College, Nairobi, Kenya  
*Duties: Part-time tutor, Computer maintenance and Networking*

## 5. Appointments and Responsibilities

- April 2019 – To Date:** **External Examiner, Faculty of Business Computer Science and Communication Studies, St. Paul’s University, Limuru, Kenya**  
*Duties:* Checking quality of examination drafts, ensuring marking meets high integrity standards and guiding on examination integrity matters.
- April 2019 – To Date:** **Member, University’s Knowledge Management Committee**  
*Duties:* acquiring, preservation and dissemination of University’s institutional knowledge
- March 2017 – To Date:** **Member, University of Embu, ISO Committee**  
*Duties:* Ensuring that the University conforms to quality standards as per implemented Quality Management Systems while advising the University on new ISO standards
- March 2017 – To Date:** **External Examiner, Faculty of IT, Zetech University**  
*Duties:* Checking quality of examination drafts, ensuring marking meets high integrity standards and guiding on examination integrity matters.
- Feb 2017 – To Date:** **Member, University Mentorship Committee**  
*Duties:* Mentoring students and staff members in the University
- Jan 2017 – To Date:** **Chairman, Department of Mathematics, Computing and Information Technology (MCIT), University of Embu**  
*Duties:* Directing and overseeing all administrative and academic matters in the Department
- Oct 2013 – To Date:** **Coordinator, Website and E-Repository**  
*Duties:* Marketing the University through the Website, improving University Webometrics Ranking, Collating, storing and consolidating all publications made by the University and its staff

## 6. Publications, Conferences, Seminars and Workshops

### 6.1 Publications

- 2019:** Mugo David, Muathe Stephen and Waithaka Stephen (2019). Performance Analysis of Debit Card Services on Deposit-Taking SACCOs' Financial Performance: A Case of Kenya. *The African Journal of Information Systems*, Vol. 12, No. 2, pp. 117-132
- 2018:** Mugo David, Muathe Stephen and Waithaka Stephen (2018). Effect of mobile communication services on performance of SACCOs in Kenya. *European Scientific Journal*, Vol.14, No.30 ISSN: 1857 – 7881 (Print) e - ISSN 1857- 7431
- 2017:** Mugo David, Muathe Stephen and Waithaka Stephen (2017). Moderating Effect of Government Policies on the Relationship between Mobile Technology Services and Performance of Deposit-Taking Saccos in Kenya. *International Journal of Scientific Engineering and Technology*, Volume No.6 Issue No.2, pp: 71-74
- 2014:** Mugo David and Nzuki David (2014). Determinants of Electronic Health in Developing Countries. *International Journal of Arts and Commerce*, Vol. 3 No. 3
- 2010:** Mugo David (2010). *Connecting people using Latent Semantic Analysis for Knowledge Sharing. Master Thesis. The paper is available online at: <http://www.sts.tu-harburg.de/pw-and-m-theses/papers.html>*
- 2009:** Mugo David (2010). *An investigation of the Latent Semantic Analysis Technique for Document Retrieval. Studentarbeit (Student Project). The paper is available online at: <http://www.sts.tu-harburg.de/pw-and-m-theses/papers.html>*

## 6.2 Conferences

- 26<sup>th</sup> – 27<sup>th</sup> March 2018**    **Mugo David, Muathe Stephen and Waithaka Stephen (2018).**  
Effect of debit card services on financial performance of Deposit-Taking SACCOs in Kenya. *2<sup>nd</sup> Annual Conference on Innovations for Sustainable Co-operative Development, Co-operative University of Kenya, Nairobi*
- 1<sup>st</sup> -3<sup>rd</sup> November 2017:**    **Mugo David, Muathe Stephen and Waithaka Stephen (2017).**  
Effect of mobile communication services on performance of Deposit-Taking SACCOs in Kenya. *The 3<sup>rd</sup> International Conference on Science, Technology, Innovation and Entrepreneurship, Dedan Kimathi University of Technology*
- 1<sup>st</sup> – 4<sup>th</sup> August 2017:**    **Mugo David, Muathe Stephen and Waithaka Stephen (2017).**  
Effect of Mobile Web Services on Performance of Deposit-Taking SACCOs in Kenya. *The 4<sup>th</sup> International Interdisciplinary Conference (IIC4 2017), Kyambogo University, Kampala Uganda*
- 27<sup>th</sup> – 28<sup>th</sup> March 2017:**    **Mugo David, Muathe Stephen and Waithaka Stephen (2017).**  
Effect of mobile banking services on financial performance of Deposit-Taking cooperative societies in Kenya. *International Conference on Entrepreneurship, Business and Technology (ICEBUT), Accra, Ghana*
- 2<sup>nd</sup> December 2016:**    **Mugo David (2017).** Mobile Technology Services and Performance of Deposit-Taking SACCOs. *Postgraduate Seminar held at Kenyatta University, Nairobi, Kenya.*



### **6.3. Seminars and Workshops**

- 11<sup>th</sup> – 15<sup>th</sup> March 2019:** Attended IBM Big Data training which was held in KENET Training Lab within the University of Nairobi main campus, did examination and was certified as an IBM Big Data Instructor
- 19<sup>th</sup> April 2018:** Attended Credit Risk Management Seminar held at Eton Hotel – Thika, Kenya facilitated by Kenya Union of Savings & Credit Co-operative LTD.
- 14<sup>th</sup> -16<sup>th</sup> Feb 2018:** ISO 27001:2013 Internal Auditors Training facilitated by Maier Consulting Limited
- 5<sup>th</sup> – 7<sup>th</sup> Feb 2018:** ISO 9001:2015 Internal Auditors Training facilitated by Maier Consulting Limited
- 22<sup>nd</sup> June 2017:** Attended a Workshop on Administrative Strategies for Effective Management of a Department in a University at the University of Embu
- 20<sup>th</sup>-21<sup>st</sup> June 2017:** Attended a Seminar on Environmental Impact Assessment and Environmental Audit facilitated by NEMA at the University of Embu
- 25<sup>th</sup> May 2017:** Attended the 1<sup>st</sup> Annual Postgraduate Seminar held at the University of Embu
- 15<sup>th</sup> – 17<sup>th</sup> May 2017:** Attended an ISO 27001:2013 Information Security Management System (ISMS) Implementation Course at the University of Embu facilitated by Maier Consulting Limited.
- 15<sup>th</sup> – 16<sup>th</sup> May 2017:** Attended an Intellectual Property (IP) Training at the University of Embu organized by the University of Embu in conjunction with the Kenya Industrial Property Institute (KIPI)
- 9<sup>th</sup> – 11<sup>th</sup> May 2017:** Attended an ISO 9001:2015 Quality Management System (QMS) Implementation Course at the University of Embu facilitated by Maier Consulting Limited.
- 20<sup>th</sup> April 2017:** Attended a workshop on Grant Writing held at the University of Embu facilitated by National Research Fund
- 13<sup>th</sup> Dec 2016:** Attended a workshop on Postgraduate Supervision at the University of Embu. Topic for the workshop: “Effective Supervision, Objective

- Examination & Mentorship of Postgraduate Studies”
- 8<sup>th</sup> -9<sup>th</sup> May 2016:** Attended a workshop at the University of Embu. Topic for the workshop: “Training on curriculum development and implementation”
- 16<sup>th</sup>–17<sup>th</sup> July 2015** Attended a workshop at the University of Embu. Topic for the workshop: “Proposal and thesis writing workshop”
- 20<sup>th</sup> -23rd Feb 2014:** Attended Annual Seminar of the KAAD Association of Scholars from East Africa (KASEA) held at Arusha, Tanzania. Theme for the seminar: *“Nature knows no Borders- Natural Resource Management in Regional Perspective”*
- 28<sup>th</sup> - 14<sup>th</sup> Nov 2013:** Seminar on teaching, setting and marking examinations methodology, held at Kenyatta University, Kenya.  
Participation level: Participant as a lecturer
- 1st – 4th Aug 2013:** Attended Annual Seminar of the KAAD Association of Scholars from East Africa (KASEA) held at Nairobi Kenya. Theme for the seminar: *“communion in African Communities”*
- 23rd – 25th Nov 2012:** Attended Annual Seminar of the KAAD Association of Scholars from East Africa (KASEA) held at Kampala Uganda. Theme for the seminar: *Towards East African Integration: Regionalization as a New Space for Social and Economic Change*

## 7. Postgraduate Supervision

S/NO	Student Name	Thesis/Project Title	University	Status
<b>PhD Students</b>				
1.	Jeniffer Jepkoech	A Novel Image Processing Approach for Detection, Segmentation and classification of Plant Leaf Diseases: A case study of Coffee in Kenya.	University of Embu	Proposal Stage
<b>MSc Students</b>				
2.	Maurice Murimi	A classification model of maize plant leaves disease using artificial neural network	Karatina University	Data Collection Stage
3.	Waweru Loise Wanjiru	A Framework on Blockchain technology for land and real estate records in Kenya	University of Embu	Proposal Stage

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|----|---------------------|---|--------------------|----------------|
| 4. | Edwin Kiprono Serem | Hybrid Model for implementation of Blockchain technology in secure and agile mobile money transfer in Kenya | University of Embu | Proposal Stage |
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## 8. Competencies

**Technical Skills:** CSS, MySQL, XML, XPATH, XSL, XQuery, Servlets, AJAX, Tomcat, Design Patterns, WebServices, Eclipse, SQL Server, Communication Networks, Software Architecture, Network Security, Application Security and JSP

**Soft Skills:** Controlling, Business Strategy, Economics, Finance, Human Resources, Project Management, Supply Chain Management, Conflict Management, Procurement and Production Management, and Accounting

**Programming Languages:** Pascal, Java, C++, C, PHP, MATLAB, Visual Basic 6.0, Delphi 7.0

## 9. Honours and Awards

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|--------------|--|
| <b>2007:</b> | “Global Engineering” MBA Scholarship by Thomas Matzen GmbH, to study Masters in Business Administration in Hamburg, Germany                        |
| <b>2007:</b> | Katholischer Akademischer Austauschdienst (KAAD), 2-year scholarship to study MSc in Computer Science at Hamburg University of Technology, Germany |
| <b>2004:</b> | Awarded for being the Best Computer Science Student in Kenyatta University by Korean Embassy   |
| <b>2000:</b> | Awarded a Certificate for being the best student in Embu District, Kenya   |
| <b>2000:</b> | Awarded a Certificate for participating in the Provincial Science Congress   |

## **10. Community Service**

**2018-To Date:** Board Member and Chairman, Credit Committee, Embuvarsity SACCO

**2017-To Date:** Secretary, Kamiu Catholic Church, Embu

**2017-To Date:** Vice Secretary, Embu Parish Catholic Church

**2015-2017:** Chairman, Development Committee, Rutune Catholic Church, Embu

## **11. Hobbies**

**Mentorship:** Mentoring young people and giving motivational talks in schools

**Physical Hobbies:** Jogging, dancing and travelling

**Reading:** Reading articles on current affairs, Bible and Motivational Books

## **12. Referees**

1. Prof. Kiplagat Kotut, Deputy Vice Chancellor(ARE), University of Embu, P.O Box 793-60100, Embu. Tel: +254 722288471, Email: kotut.kiplagat@embuni.ac.ke
2. Dr. Elizaphan Maina Muuro- Lecturer, Computing and Information Technology Department, Kenyatta University, P.O Box 43844-00100, Nairobi. Tel: +254722508793
3. Dr. Millien Kawira, Dean, School of Pure and Applied Sciences, University of Embu, P.O Box 6 - 60100, Embu. Tel: +254727450027, Email: kawira.millien@embuni.ac.ke

**I CERTIFY THAT ALL INFORMATION STATED IN THIS RESUME IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE. I AUTHORIZE THE CONCERNED PARTY TO VERIFY THE INFORMATION PROVIDED IN THIS RESUME**



**Dr. David Muchangi Mugo**