



KADIMA VICTOR CHITECHI

MSc. Information Technology, BSc. (IT), Dip MIS - LMIS

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**PERSONAL INFORMATION** **Date of Birth:** 9<sup>th</sup> March, 1978

**Place of Birth:** Matungu Sub-County, Kakamega County

**Citizenship:** Kenyan

**Telephone:** +254 723422184

**Marital Status:** Married

**Residence:** Kakamega, Kakamega Central District

**Language:** English, Kiswahili, Luhya

**Physical Address:** **Box 190-50100 Kakamega, Kenya**

**Website:** [vkadima@mmust.ac.ke](mailto:vkadima@mmust.ac.ke) or [kadima39@gmail.com](mailto:kadima39@gmail.com)

## EDUCATION

### Postgraduate

PhD Student Information Technology [**Proposal stage**]- Masinde Muliro University of Science and Technology, Kenya, School of Computing & Informatics (SCI) IT Department .Proposed Research Title, **Risk Management Framework for Cyber-Security in Government Institutions in Kenya**

Masinde Muliro University of Science and Technology, Kenya

MSc. Information Technology. Thesis Title, **An Assessment Model for Cyber Security Vulnerability in County Governments, Kenya.**

### Undergraduate

Busoga University, Uganda

Bachelor of Science (IT), **Second Class Honors Upper Division** (2010-2013).

### Other Qualifications

Advanced Diploma in Business Information Technology, Graffins College, Kenya, 2009 – 2010

Diploma in Management of Information Systems, IMIS UK, 2007 – 2008

Diploma in Networking, Infotech training Centre, Kenya, 2003

Advanced Certificate in Computer Maintenance Technology, KTTC, Kenya, 1999 – 2000 Certificate in microcomputer Engineering, Technical University of Kenya, 1997 – 1998

### Professional Certificates & Training

ICDL (International Computer Driving License) Training, Computer Pride, Kenya, 2011 CCNA (Cisco Certified Network Associate) Training, Computer Pride, Kenya, 2010, certificate of participation as faculty member on DHIS2 Academy 18<sup>th</sup> to 22<sup>nd</sup> Dec 2017, KSG - Information Systems Security Management 23<sup>rd</sup> to 4<sup>th</sup> May 2018.

### High School

Kolanya High School, 1993 - 1996: KCSE Certificate

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## **BRIEF RESUME**

Mr. Kadima Victor Chitechi is an IT expert and a PhD student SCI, department of IT [MMUST]. I work as an Assistant Lecturer in the department of computer science, Masinde Muliro University of Science and Technology (MMUST), Kenya. I am a PhD Student Proposal stage **Enhanced Cybersecurity Risk Assessment Approaches and Framework for Government Institutions**, Kenya, I hold an MSc in Information Technology from Masinde Muliro University of Science and Technology (MMUST) a BSc in Information technology second-class upper division from Busoga University (Uganda). The title of my Thesis dissertation was **An Assessment Model for Cyber Security Vulnerability in County Governments, Kenya**. Mr. Kadima is involved in a number of research projects of ICTs and development, they include, student mentorship activities as patron [DSA, SIRG, ACS], Virtualisation computing technologies, Cybersecurity and Green computing in Kenya. Besides, he has attended several seminars and conference proceedings in Information technology and ICTs for development. He is a professional member of the Association for Computing Machinery (ACM), Management of Information Technology (IMIS) professional computing bodies. I have done professional courses and certified in ICDL and CCNA. I believe in team work and able to operate in a competent environment and industrial based and technical perspectives to meet set targets. Perform effectively both in individual and group projects by delivering good quality robust deliverables to deadline.

## **WORK EXPERIENCE**

Assistant Lecturer, Department of Information Technology, School of computing and informatics, Masinde Muliro University of Science and Technology.

## **UNIVERSITY-LEVEL APPOINTMENT**

### **Major Duties and Responsibilities.**

Overall Responsibility as assigned by the COD and Dean SCI

- Teaching of undergraduate and diploma courses at SCI
    - Exam coordinator Department of Computer Science 2019 to-date
    - Patron Developer Students Community [DSC] since 2016.
    - Committee Member SCI Career week, Research and grants, SCI board.
    - Helpdesk administration; provide software and hardware troubleshooting, repair and maintenance as well as software user support to all members of staff on-site.
    - Desktop administration; carry out installation and the uninstallation of all software on all user ICT equipment.   ▪ Administering and managing of computer lab LBB 011
  - Teaching and managing computer Lab practical's
  - Support and manage general computers in the Lab
  - Network administration and communication management; deployment of network infrastructure such as cable trunking, switching and routing as well as troubleshooting of LAN/WAN connectivity issues in the Labs.
  - System administration; deployment and commissioning of new servers. Monitor the performance and reliability of network equipment within the department, recommend replacement or modification of
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existing hardware and facilities, control physical security of data processing and storage facilities including standby and recovery procedures, plan and test back-up facilities in the event of computer equipment failure and coordinate the departments re-run procedures.

- Guide procurement with the necessary technical (hardware and software) acquisition specifications during purchase of ICT equipment according to standards and least cost in keeping with rules and regulations and to ascertain that the correct services have been rendered in a timely manner. Maintenance of the inventory of all IT assets and equipment.
- Computer proficiency – facilitator computer proficiency courses
- Facilitator certificate in information technology, all computer related lab practical's and sessions
- Computer Lab – was appointed to co-ordinate teaching Labs in the department apposition I hold to date.
- Secretary Departmental training committee.
- Attachment coordinator – I coordinate non-MMUST students who are attached in the department for a period of three months.
- LBB011 Computer –technician in-charge of LBB011 to 2013
- Secretariat member and facilitator industrial training

#### **Additional Responsibilities**

- Exam coordinator department of computer science
- In-charge SCI Computer Labs

**Previous Employment** ▪ Attached to the Ministry of Finance and planning 1999 -2000 MISD department. ▪ 2000-2001 attached to ICT Department Kenyatta University

- 2002 – 2004 Employed at Kenyatta University ICT Department as a computer Technician

#### **RELEVANT TEACHING AND TECHNICAL EXPERIENCE**

Over Ten years of support to teaching and technical experience at, Undergraduate and diploma levels

##### **Undergraduate Level:**

- Systems Analysis and Design ,Digital Logic ,Software Engineering ,Operating Systems ,Multimedia systems and Graphics ,Database systems ,Computer Architecture ,Network Design and Implementation ,Computer Applications , Fundamentals of computing , E-commerce , Client-Server Computing, Introduction to database systems , Helpdesk support , Networking, System Administration , Computer Architecture, Contemporary Issues in Information Systems Management, Operating Systems.

##### **Diploma level:**

- Computer organization ,Data Communication and Networking ,E- Commerce ,System Analysis and Design ,  
☞Industrial Training – Computer Repair and Maintenance ,Computer networks , Desktop Publisher ,Computer Systems Maintenance, Internet Applications ,Web development II, Software Engineering, IT Essentials, Professional, Legal and Ethical issues in Computing, Windows Operating System, Multimedia Systems , Data communication & Networks, IT Project.

#### **RESEARCH PROJECTS & CONSULTANCIES Research Interests**

Information Security (Cybersecurity), Green ICT, Virtualised Computing Technologies, ICT and development, Health Information Systems.

#### **Community Service**

- Member Board of Governor Ebukanga TVC 2019 to date.
  - Student mentorship activities as patron [DSA, SIRG, ACS]
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- Peer Educator MMUST

### **Consultancies**

- Kibabii University College, Kibabii University College Website ([www.kibabiiuniversity.ac.ke](http://www.kibabiiuniversity.ac.ke) )
- Namamba Secondary School, school Website ([www.namambasecondary.sc.ke](http://www.namambasecondary.sc.ke) )
- Bukura Agricultural College , website ( [www.bukuracollege.ac.ke](http://www.bukuracollege.ac.ke) )

### **Achievements**

- Installation and configurations of new desktop computers in all undergraduate laboratories in SCI October 2019.
- Deployment and adoption of Thin-client and N-computing technologies in the department of computer science SPD 004 , 2015
- Layout and requirement specifications of structured cabling of technology lab SPD 004 , 2015
- Member departmental committee that worked on Approval of School of Computing and Informatics (SCI) by University Senate on 13<sup>th</sup> January 2016
- Participated in the development BSc in Information Systems and Knowledge Management programme for MMUST to start in 2016/2017 KUCCPS student's intake.
- Member committee that developed TVET programmes: Diploma in Technology in Computer Systems and Diploma in Software Development Programme
- Participated in the Review of 4 programmes: BSc in Computer Science, BSc in IT, MSc in IT and PhD in IT based on CUE standards and guidelines
- Participated in setting up of the new computer Labs in main campus and other campuses, Bungoma, Webuye and Nambale Centre. 2009
- Offered professional advice in purchase of ICT equipment's in the University. 2007 - Training of staff in computer literacy. 2008
- Training workshops – training of DEO's of Vihiga district all the packages, Bukura Agricultural College academic Staff PowerPoint training for HOD's from 16<sup>th</sup> to 20<sup>th</sup> February 2009.
- Networking of the DVC's Offices, Computer Labs in main campus. 2009
- Facilitator computer proficiency training 2005
- Participated in the development of MMUST website 2006 - Support to computer science Labs expansion project 2005.
- Member to development committee industrial training programme for second year students in the department.

### **6.0. CONFERENCES/WORKSHOPS/ SEMINARS**

- Participated in Association of African Universities Conference hosted by Kenyatta University as a secretariat - 2002
  - Attended a Network operations and management course organized by Kenya Education Network (KENET) February 2005.
  - Participated in a symposium on academic linkages on January 2009 at MMUST.
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- Participated in a Training workshop on Introduction to Materials Development for Open and Distance Learning (ODEL) from 5<sup>th</sup> to 7<sup>th</sup> of November 2008 at MMUST organized by SOLACE and the Commonwealth of Learning (COL)
  - Training workshops – training of DEO’s of Vihiga district, all the computer applications, Bukura Agricultural College academic Staff; PowerPoint training for HOD’s from 16<sup>th</sup> to 20<sup>th</sup> February 2009.
  - CISCO - Certified Network Associate Training workshop at Computer Pride January 2010
  - ICDL - Training at Computer Pride 18<sup>th</sup> June 2010
  - Attended an ISO awareness training workshop at MMUST on 9<sup>th</sup> March 2011.
  - Participated in a two year research project on “ the impact of violent conflict on Mt. Elgon region in Kenya as from 2008 to 2010
  - Participated in a workshop at MMUST Directorate of ICT on Fundamentals of Web Applications
  - Participated In Process Of Installation, Customization and Implementation of Koha – a world class integrated library management system three year project 2010 to 2013
  - Facilitated in a Training Course on Capacity Building in Higher Education at MMUST 11<sup>th</sup> to 22<sup>nd</sup> 2010
  - Participated in the organization for 5<sup>th</sup> MMUST ICT Post-graduate Seminar 29<sup>th</sup> March 2016- SPD 004, Masinde Muliro University of Science and Technology
  - Attended Workshop on Module Writing by MMUST in Busia Farm view 7<sup>th</sup>-9<sup>th</sup> September 2015
  - Attended workshop training on Grant proposal writing by MMUST in Busia ATC, 1<sup>st</sup> -5<sup>th</sup> June 2015
  - Attended Workshop on Technical, Vocational, Education and Training in MCU, MMUST, 26<sup>th</sup> May 2015
  - Participated in the organization for an International Women’s Day Workshop, for Computing Students by Safaricom, MMUST, 19<sup>th</sup> March 2015
  - Attended Public Lecture on Internet Critical Resources and Governance: The role of Academia by ICANN, MMUST, 29<sup>th</sup> January 2015
  - Attended Workshop on Catalyzing employability skills by Microsoft and ACWICT,MMUST, 23<sup>rd</sup> January 2015
  - Organized for Workshop on Mobile Boot-Camp for mobile applications development and USSD by iHub, Ushahidi and Africa’s talking, MMUST, 14<sup>th</sup> -15<sup>th</sup> November, 2014
  - Attended 1<sup>st</sup> postgraduate seminar organised by the school of computing and informatics, MMUST, on 23<sup>rd</sup> May 2017
  - Presented my MSc proposal title An Assessment model for cyber security vulnerability in County Governments , Kenya during the 2<sup>nd</sup> postgraduate seminar organised by the school of computing and informatics, MMUST, on 23<sup>rd</sup> July 2017
  - Attended DHIS2 training on technical support for Health Information Systems organised by the HIT & UON in Homabay County from 23<sup>rd</sup> April to 4<sup>th</sup> May 2018.
  - Attended mUzima 3<sup>rd</sup> Annual Hackathon organised and hosted at SCI MMUST , MOI & HI-Train – Health Informatics Training and Research in East Africa for Improved Health Care from June 6<sup>th</sup> to 8<sup>th</sup> , 2018
  - Attended ODeL Module Training using Moodle to support common courses at MMUST [BIT 113 IT Fundamentals November 2019
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- Attended ODeL Module Meeting/Training during COVIT 19 Pandemic on alternative teaching Strategies at MMUST on - 29th April 2020
  - Attended several meetings organised online/virtually at departmental and school level on university wide matters using various platforms due to CIVIT 19 Pandemic.
  - Attended a workshop on Leadership, Management and Governance Training from 9<sup>th</sup> to 13<sup>th</sup> November 2020 at the Grand Royal Swiss Hotel, Kisumu.

## 7.0 RESEARCH PUBLICATIONS

- Kadima Victor Chitechi, Samuel Mbugua ,and Kelvin Omieno , *Facilitating Factors for Cybersecurity Vulnerabilities in Kenyan County Governments*, Asian Journal of Research in Computer Science: Vol2(1):1-11,2018 ;Article no. AJRCOS. 45049.
  - Kadima Victor Chitechi, Yusuf Muchelule, and Kelvin Omieno, Book Title- An Assessment Model for Cyber Security Vulnerability in County Governments, Kenya, Publishing House-LAP LAMBERT Academic Publishing, pages 132, ISBN-13 (978-620-0-50727-3) ISBN-10:(6200507279) EAN: (9786200507273) 09<sup>th</sup> January 2020, <https://www.lap-publishing.com>
  - Kadima Victor Chitechi, Kelvin K. Omieno, *Effective Adoption of ICT's In Management of Medical Laboratory Services in Kenya*". *International Journal of Innovative Science and Research Technology(IJISRT)*, [www.ijisrt.com](http://www.ijisrt.com) ,ISSN No :- 2456-2165 ,Volume 5 - 2020 - Issue 1 – January
  - Kadima Victor Chitechi, Collins Otieno Odoyo, Emerging Trends for Energy Consumption Within ICT Devices, *International Journal of Engineering Applied Sciences and Technology (IJEAST)* 2020, Vol. 5, Issue 3, ISSN No. 2455-2143, DOI : 10.33564,Pages 136-141, Published Online July 2020 in IJEAST (<http://www.ijeast.com>)
  - Kadima Victor Chitechi, Otanga Daniel, *Current Trends in Information Technology: Which Way for Modern IT Experts*, *International Journal of Computer Trends & Technology - IJCTT*, July 2020, Volume 68 Issue 7 (2020):pg31-36 ,ISSN: 2231-2803, DOI: 10.14445/22312803/IJCTT-V68I7P105
  - CHITECHI, Victor Kadima; KIPRONO, Benjamin; TIREITO, Frank. Cyber- Security Vulnerability and Initiatives in Kenyan County Governments. *African Journal of Computing and Information Systems (AJCIS)*, [S.l.], v. 4, n. 3, p. 17-34, September. 2020. ISSN 2519-5875. Available at: <<http://www.academicinsights.org/index.php/AJCIS/article/view/52>>. Date accessed: 16 September 2020.
  - Kadima Victor Chitechi, Green Computing: Techniques and Challenges in Creating Friendly Computing Environments in Developing Economies ,*International Journal of Research and Scientific Innovation (IJRSI)* | Volume VII, Issue IX, September 2020,ISSN 2321–2705 ,[www.rsisinternational.org](http://www.rsisinternational.org)
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## 8.0 REFERENCES

1. Dr. Daniel Otanga  
Dean, School of Computing & Informatics  
Lecturer, Information Technology Department,  
Masinde Muliro University of Science &  
Technology P.O. Box 190 - 50100 Kakamega,  
Kenya;  
Tel: 0722-234-554, Email:  
dotanga@mmust.ac.ke
2. Mr. Wabwile Paul N.  
COD, Information Technology,  
Lecturer Department of Computer Science  
Masinde Muliro University of Science &  
Technology P.O. Box 190 - 50100 Kakamega,  
Kenya;  
Tel: 0721-417-636, Email:  
pwabwile@mmust.ac.ke
3. Dr Jairus Odawa  
Lecturer, Department of Information Masinde  
Muliro University of Science & Technology  
P.O. Box 190 - 50100 Kakamega, Kenya;  
Tel: 0728-619-603, Email: jodawa@mmust.ac.ke