

## CURRICULUM VITAE

### Ms. Muthoni Masinde

Lecturer

School of Computing and Informatics

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### ACADEMIC QUALIFICATIONS

#### University of Cape Town

Current

Pursuing PhD in Computer Science

#### Vrije Univesiteit Brussel

1998 - 1999

MSc. Computer Science (with Distinction)

#### University of Nairobi, Kenya

1993 - 1997

BSc. Computer Science (Upper Second Division)

### PROFESSIONAL QUALIFICATIONS

#### Cyber Networks, Nairobi

June 1998

Windows NT Administration (NT - Core)

#### Software Technologies Limited, Nairobi

July - Aug 1998

Oracle Developer and Administrator (DBA)

### EMPLOYMENT - ACADEMIC

#### Lecturer, University of Nairobi

April 2003 - Current

- Teaching programming, computer networks, internet applications and database courses.
- Managing Oracle-based Student Management Information System (A part of the University's SMIS) for the School of Computing and Informatics (SCI).
- Preparing online teaching materials for both undergraduate and postgraduate courses.
- Designing customized examination results' reports for the SCI Academic Board.
- Supervising students undertaking systems development projects.
- Review of undergraduate courses.

### EMPLOYMENT - TECHNICAL

#### Chief Analyst/Programmer, University of Nairobi

Oct 1999 - Mar 2003

- As the Project Manager for the Students Management Information Systems for the University, I coordinated a group of software developers.
- Developed and commissioned Oracle-based Students' Management Information Management System (SMIS), for the University of Nairobi. The System has Examinations, Fees, Accommodation and Nominal Roll modules.
- Systems development using: Visio Professional (CASE Tool), Java, C++, Visual Basic, Oracle Developer 2000, Oracle Designer and Oracle.
- Migrating University of Nairobi MIS to run on Oracle.
- Training and supporting users of the SMIS.
- Offering corporate training to the private and public sectors.
- Carrying out Systems documentation.
- Advising and participating in software procurement for the University.
- Determining and advising on software and hardware needs for the University.

#### Senior Analyst/Programmer, University of Nairobi

Aug 1997 - Sept 1999

- Developed the Fee Processing System of the University using Ms Access.
- Design and development of the University of Nairobi web site.
- Training University staff on office automation and Internet services.
- Developing training/user manual.

## CONSULTANCIES/MANAGERIAL EXPERIENCE

- **Assistant Project Manager/Researcher** **June 2008 - Current** IDRC-funded project to look into the critical success factors in the development of Business Process Outsourcing Industry in Kenya.
- **Project Leader** **May 2008 - Current** Project for the Provision of ICT Consultancy Services for Overseeing the Design, Development, Implementation and Support & Maintenance of a Web-Based System for the Kenya Knowledge Network (KNET).
- **Lead Consultant** **Jan 2008 - Current** The procurement and hardware/software installation and hosting of Kenya's Agricultural Data Compendium in the Ministry of Agriculture.
- **IT Consultant** **Jan 2008 - Current** KIPPPRA consultant in developing the Kenya Agricultural Data Compendium for the Ministry of agriculture.
- **Lead consultant** **Jan 2000 – Dec 2000** Procurement of hardware and software for the University of Nairobi Pension Scheme.

## LEADERSHIP/OTHER MANAGERIAL EXPERIENCE

- **Chair, Staff Welfare Committee** **Jan 2007 - Current** School of Computing and Informatics, University of Nairobi.
- **Software Expert, Examinations and Finance Committees** **Jan 2004- Current** School of Computing and Informatics, University of Nairobi.
- **Project Leader** **Nov 2006 - March 2007** Conference website project for the 1<sup>st</sup> International Conference in Computer Science and ICT, University of Nairobi.
- **Team member** **June 2005 - July 2005** The development of the Strategic Plan (2005 - 2010) for the School of School of Computing and Informatics, University of Nairobi.
- **Project Manager** **April 2000 - Dec 2003** The University of Nairobi's SMIS (Student Management Information System).

## PROFESSIONAL MEMBERSHIP

- Institute of Electrical and Electronics Engineers (IEEE) 2004 – Current
- Third World Organisation for Women in Science (TWOWS) 2005 – Current

## HONOURS AND AWARDS

- **IDRC Research Award** **April 2008 – Dec 2009** Research Grant through the School of Computing and Informatics to carry out research on '*Development of a Business Process Outsourcing Industry in Kenya: Critical Success Factors*'
- **VLIR Scholarship** **Oct 1998 – Oct 1999** M.Sc. Scholarship
- **KNCST Research Award** **July 2004 – Aug 2005** Research grant for the research project '*Activity-Based Costing (ABC) Framework – University of Nairobi Case Study*'

## PUBLICATIONS

Ileri, E.M. (2003) 'Event Driven Review of the University of Nairobi's SMIS,' in Ralph M. Stair and George W. Reynolds, *Principles of Information Systems*, 6th Ed. Boston, Massachusetts: Thomson Course Technology.

## CONFERENCE PAPERS

Masinde Muthoni, Antoine Bagula and Victor Murage (2010); *MobiGrid: A Middleware for Integrating Mobile Phone and Grid Computing*; in the proceedings of the 6th International Conference on Network and Service Management (CNSM 2010), Niagra Falls Canada, October 25-29 2010

Masinde, Muthoni and Antoine Bagula (2010); *A Framework for Predicting Droughts in Developing Countries using Mobile Phones and Wireless Sensor Networks*, in the proceedings of the 1st Networking Networking Women Workshop; Chicago, USA, September 20, 2010

Masinde, Muthoni and Antoine Bagula (2010); *A Framework for Predicting Droughts in Developing Countries using Mobile Phones and Wireless Sensor Networks*, in the proceedings of the Annual Conference of the South African Institute of Computer Scientists and Information Technologists ; Forever Resort Warmbaths, Bela-Bela, South Africa; October 11 – 13 2010

- Waema T, Masinde M., Odera G., Adeya-Weya C., Were P. and Chepken C, (2009); *Development of a Business Process Outsourcing Industry in Kenya: Critical Success Factors*; IDRC
- Masinde, Muthoni (2008) Using an Adaptive E-Learning Environment For OOP - University of Nairobi Case, in the proceedings of the IST-Africa 2008 Conference; Windhoek, Namibia, 7-9 May.
- Masinde, Muthoni (2007) Ensuring Quality in eLearning Programmes for Transnational Education in Africa - a Systems Approach, in the proceedings of the 2nd International Conference on ICT for Development, Education and Training - An Annual Event for Building eLearning Capacities in Africa; The Safari Park Hotel, Nairobi, 28-30 May.
- Masinde, Muthoni (2006) A Systems Thinking Framework for Quality Assurance in Transnational Education - The Case of Kenya; in the proceedings of the Regional Eastern Africa Conference/Workshop on Quality Assurance in Higher Education; Kenyatta University, 6-11 November.
- Masinde, Muthoni (2006) Using JAD to Bridge the Design-Reality Gaps; A Major Cause of IS Projects' Failures in the Developing countries; in the proceedings of the 2<sup>nd</sup> Annual International Conference on Sustainable ICT in Developing countries, Makerere University, Kampala, Uganda, 6-9 August.