
CV FOR PETER WAKHOLI

Curriculum Vitae

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Profile	Peter is passionate to translate research into practical solutions that solve problems in the developing world. After all, there is nothing more practical than a good theory (Kurt Levin). His research interests intersect industrial experience and theory to present innovative ways of approaching problems in the IS domain. Based on this guiding principal, he has undertaken research in enterprise architectures and business process, mobile-based systems, Information systems modeling and technology for development. He conducted his PHD research is on process aware mobile systems at the University of Bergen in Norway. Through his research, he has been at the forefront of many innovative products like openXdata workflows (http://openxdata.org) and has been implemented in a range of Information systems.
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Education	PHD Information Systems, <i>University of Bergen, Norway</i> <i>Defending May 2013</i>
	Msc. Information Systems, <i>London SouthBank University UK</i> <i>September 2006</i>
	B.Sc. Computer Science (First Class), <i>Makerere University</i> <i>April 2004</i>
	Higher National Diploma Electrical Engineering, <i>Kyambogo University</i> <i>June 2000</i>

Career History	OMNI-Tech Ltd (http://omnitech.co.ug/) CEO <ul style="list-style-type: none"> Establishment of business for an emerging company CEO and team leader of a company that employs 7 personnel <i>Jan 2011 - Present</i>
	Department of Information Systems, CIT, Makerere University <i>Jun 2006-Present</i>

Lecturer

- Teaching Operations Research, Business Applications Programming and Information Systems Modeling, Business Process Management, software engineering, mobile networks and wireless computing.
- Supervising undergraduate and post graduate student research projects. Most relate to information systems development.

**Department Software Development and Innovations, CIT, Jun 2008- Oct
Makerere University 2010**

Assistant Head of Department

- Managing Software development projects.
- Supervising a team of software engineers
- Developing software development potential for CIT graduate students.
- Coordinator of the Uganda National Software Incubation Centre

**British Department For International Development Uganda, Nov 2004 – Dec
Kampala 2006**

Assistant Information Systems Administrator

- Provided helpdesk service to an organization with large ICT infrastructure and various information systems
- Managed maintenance and troubleshooting of IT systems
- Managed various contracts with suppliers and service providers
- Managed ICT inventories and assets

**British Department For International Development Uganda,
Kampala**

Technical Works Supervisor

- In charge of housing and office equipment
- Supervised a team of contractors and various service providers in the maintenance of DFID properties
- Housing and Office Inventory management and control
- Part of the Office management team that ensured smooth running of all operations.

**June 2000 –
Nov 2004**

Teaching Experience

Lecturer: Csc1103 Operations Research, computer Science 2005, 2008
Department, Makerere University,

- *This course provides the foundations for operational research which is an interdisciplinary branch of mathematics. It uses methods like mathematical modeling, statistics, and algorithms*

to arrive at optimal or good decisions in complex problems.

Lecturer: BIT1203, Business Applications Programming, Information Technology Department, Makerere University, 2006, 2007

- *This course is designed to train students to understand programming, in particular business applications programming.*

Lecturer: MCS 7201, Software Engineering, Networks and Software engineering Department, Makerere University, 2010

- *This course is about how to go about constructing large software systems.*

Lecturer: MCS 7201, Business Process Modelling and Analysis, Information Systems Department, Makerere University, 2009, 2010, 2011, 2012

- *The aim of the course is to provide a process-oriented view of the organization and its relationships with suppliers, customers, and competitors.*

Research

Publications, Presentations and Abstracts

- Wakholi, P. and W. Chen (2012). *Workflow Partitioning for Offline Distributed Execution on Mobile Devices*. 24th International Conference on Advanced Information Systems Engineering (CAiSE) Forum, Gdańsk, Poland, CEUR-WS.org.
- Wakholi, P., W. Chen, et al. (2011). "Workflow Support for Mobile Data Collection." *Enterprise, Business-Process and Information Systems Modeling*: 299-313.
- Wakholi, P., K., H. (2010). "CU@SCHOOL: Tracking School attendance in Uganda." Retrieved 08/10.2012, 2012, from <http://twaweza.org/index.php?i=221>.
- Klungsøyr, J., P. Wakholi, et al. (2008). *OpenROSA, JavaROSA, GloballyMobile–Collaborations around Open Standards for Mobile Applications*.
- Jørn KLUNGSØYR, Thorkild TYLLESKÄR, Bruce MACLEOD, Paul BAGYEND, Weiqin CHEN, Peter WAKHOLI *OMEVAC–Open Mobile Electronic Vaccine Trials, an interdisciplinary project to improve quality of vaccine trials in low-resource settings M4D Conference 2008*
- Peter K Wakholi, Sarah Mubiru, Endiisa: *Decision Support Tool for Least Cost Nutritious Feed Combinations for Dairy Cattle in Uganda submitted to ICCIR conference 2011.*
- Mubiru, S. L., Wakholi, P., Nakiganda, A., Sempebwa, H. N., Namagembe, A., Semakula, J., ... & Kazibwe, P. *Development of Endiisa Decision Support Tool for Improved Feeding of Dairy Cattle in Uganda. Agricultural Innovations for Sustainable Development*, 45.
- Peter Wakholi, Weiqin Chen, and Jørn Ivar Klungsøyr, *a framework for mobile-based electronic data collection in clinical trials, 7th International Conference on E-Governance (ICEG-2010)*

Upcoming Publications

- Joseph Abisa, Peter Magara and Peter Wakholi, *Using mobile phones for monitoring delivery of rural water services in Uganda, IRC Symposium, Addis Ababa Ethiopia*
- Peter K. Wakholi, Weiqin Chen and Jørn Klungsøyr, *Openxdata workflows – an approach to process-aware mobile data collection, Parallel and Distributed databases Journal*

Consultancies / Community Engagements

ARK-PEAS school monitoring system Project Leader

March 2012

Contracted to Develop a Monitoring tool for 10 schools that are implementing a UK-based charity ARK-PEAS programs in Uganda. Worked as the lead consultant with the team from OMNI-TECH Solutions.

SNV Uganda - Principal Investigator M4W Project

July 2011

Submitted a joint proposal for funding to develop a mobile-based tool for monitoring the functionality of water points. System was developed by a team of software developers at OMNI-Tech and deployed in 7 districts in Uganda.

Uganda Bureau of Statistics

May 2011

Lead consultant in developing a mobile – based solution for data collection. Conducted feasibility study, reviewed current business processes and information needs, designed and developed a system that has being deployed.

Ministry of Foreign Affairs Uganda

December 2010

Part of a team that reviewed that current It infrastructure, business process and organizational goals in order to develop an IT strategic plan.

Invited Speaker for WHO Neglected Tropical Diseases workshop

August 2010

- Provided insight on the use of mobile devices for monitoring programs in health. Presented the use on behalf of openXdata (<http://www.openxdata.org/>) where I am a management board member

WHO Vaccination project (PATH, MVAC)

October 2010 - present

- Part of a team that is developing a mobile based vaccination registry project. It is a collaboration between WHO and PATH – to utilise openXdata for a vaccination project called mVAC. <http://www.uib.no/cih/en/nyheter/2010/10/using-mobile-phones-to-track-immunizations>

PACE Uganda, Business Activity Monitoring tool (<http://pacesms.org>)

May 2010 - Feb 2011

- Lead designer and developer of a mobile based tool for monitoring field activities for a Non-Governmental Organization. Dealing in health
- Tool used for monitoring service provision, fleet management, product sales, training programs, etc

Ministry of Education, SNV project, Kampala Uganda

June 2009 - 2010

- **Lead Consultant:** feasibility study and requirements specification for the implementation of mobile phones for school attendance in primary schools in Uganda.
- **Project Leader:** Implementing mobile based reporting tool for the SNV/ Ministry of Education CU@School Project.

Ministry of Health, Kampala Uganda		<i>June 2009 - 2010</i>
<ul style="list-style-type: none"> • Part of the task for on the Implementation of the ICT4Mpower project under the MOH e-health strategy. • Leading a team of software developers for the project from Faculty of Computing and IT. 		
National Malaria Control Program Rwanda		<i>Aug 2009 – Jan 2010</i>
<ul style="list-style-type: none"> • Analysis of requirements for SMS reporting tool. • Project leader for implementing an SMS based reporting tool on malaria prevalence from health centers in Rwanda 		
National Agricultural Research Organization, Kampala Uganda		<i>Jan 2009 – Aug 2009</i>
ICT expert		
<ul style="list-style-type: none"> • Developed a mathematical model for dairy feed optimization • Developed a decision support tool (Endiisa) for dairy farmers and deployed on NARO website. • Site URL - http://naro.go.ug/Inventory/Endiisa/index.php 		
Ministry of Education and Sports, Kampala, Uganda		<i>Jun 2007 – Feb 2008</i>
Lead Consultant (Part of a team from ICT consults)		
<ul style="list-style-type: none"> • Managed a team of three consultants tasked with developing an Education portal for Uganda (unesco.go.ug). • This involved coming up with a website design, developing the site, developing content and training various stake holders. 		
Makerere University, Kampala, Uganda		<i>Mar 2008 – Jul 2008</i>
Team Leader website development		
<ul style="list-style-type: none"> • Worked as part of a team from CIT tasked with upgrading websites for all units in the university. • Role was to review requirements and design websites for the units. 		
Institute of Certified Public Accountants, Kampala, Uganda		<i>May 2007-Mar 2008</i>
Lead Consultant (Part of team from ICT consults)		
<ul style="list-style-type: none"> • Charged with designing and developing a dynamic website for ICPAU. • The website had to integrate with their back-end information systems. • All students and members had to access personalized information. • Project is complete and currently in maintenance phase. • Site URL – http://www.icpau.co.ug/ 		

Ministry of ICT, Kampala, Uganda
Associate Consultant

Aug 2007- Jan 2008

- Task was to develop website standards and guidelines for Uganda government websites
- Worked as part of a team and developed a document which was presented and handed over to the ministry of ICT.

Chairman of Board FOCUS Uganda (<http://focusuganda.org/>)

April 2008 to April 2012

- A Non Government Christian organization that discipules students for Christ. Chairman of the national board that oversees the work of the ministry.

Key Competences

- **General Administration** - My career at DFID involved all kinds of administration like contract management, purchasing, inventory management, Information systems, etc.
- **Programming** - in a variety of languages and environments – Actively participate in developing code for the software projects.
- **Modeling** - generation of various kinds of models and simulation using various techniques.
- **Information systems analysis and design** - Gained through supervision of student projects and various consultancies. I have been the key architect of all the software development projects undertaken.
- **Operations Research and Management science** – Have undertaken various research projects and taught related courses.
- **Developing IS strategies** and plans for development and integration of systems – A big part of my masters studies at LSBU. Have worked with PILA consultants on a related project.
- **Software Project Management and Risk Analysis** - This has been core management component for all projects undertaken.

INSPIRATIONAL QUOTES

There is nothing more practical than a good theory (Kurt Levin)

He who loves practice without theory is like the sailor who boards ship without a rudder and compass and never knows where he may cast. (Leonardo da Vinci)

Experience without theory is blind, but theory without experience is mere intellectual play. (Immanuel Kant)

Thank You for Reading this thesis

The end will always come!