

LOUISE BERTHILSON
FULL CURRICULUM VITAE
VERSION 20090329

1 PERSONAL INFORMATION

Born: 6 March 1978, Gävle, Sweden

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2 EDUCATION

M.Sc, Electrical Engineering (Communications Systems), Royal Institute of Technology (KTH), Sweden, 2003

Business Economy, University of Stockholm, Sweden, 2000

German higher level, (DID), Munich, Germany, 2000

3 EMPLOYMENT

May 2004 to present: Independent Consultant *IT46 HB*.

2004: Research assistant, Supervisor of international master student project in Communications Systems Design Course. Implementation of optical fiber network with basic networking services at the Dar es Salaam, Institute of Technology, Tanzania. Royal Institute of Technology (KTH), Sweden.

2003: Research assistant, Development of Content Management Systems, ICT4D/WSIS, Royal Institute of Technology (KTH), Sweden.

2002: Master thesis, "StockholmOpen.net, -Roles, Requirements and Business Models", Royal Institute of Technology (KTH), Sweden.

2001, Implementation and verification of Java client for mobility handling in a system where GSM and DVB-T was used to establish broadband mobile Internet access, Teracom AB, Stockholm, Sweden.

4 PUBLICATIONS

4.1 Thesis and papers

- (1) *Berthilson L.*, "StockholmOpen.net, -Roles, Requirements and Business Models", Master Thesis, Stockholm, Sweden, Feb 2003.
- (2) Rusu L, Bertilson L, "Business Challenges in Stockholm Region through the New Technologies Transfer", The 2003 European Applied Business Research Conference, Venice, Italy, June 2003
- (3) Rusu L, Berthilson L, Forsell E, Magnergård D, Stolpe M, Zhang J, "IT Solutions and a Business Model Framework in an Open Wireless Local Area Network", The 6th International Conference on Business Information Systems with Technology Transfer- BIS 2003 Conference Proceedings, Colorado Institute for Technology Transfer and Implementation, University of Colorado, Colorado Springs, USA, June 2003

4.2 Journal articles, books and reports

- (1) *Escudero A., Berthilson L.* (book) VoIP-4D Building Voice infrastructure in developing regions, International Development Research Center (IDRC) Canada, December 2006.
- (2) *Escudero A., and Berthilson L.* (report) Site Surveys for wireless connectivity in rural Telecentres (Rwanda, Uganda, Kenya and Tanzania), United Nations Development Program, January 2007.
- (3) *Berthilson L., and Escudero A.* (white paper) Link Performance Parameters in IEEE 802.11, How to increase the throughput of a wireless long distance link, April 2007.
- (4) Escudero A., Berthilson L. et al. (chapter), *Wireless Networking in Developing World*, Spanish Second Edition, August 2007.
- (5) Berthilson B., Escudero A., *Wireless MAN requirements for the city of Fez, Ifrane, Morocco*, March 2008. Escudero A., Berthilson B., *Link Budget Calculations for WiMAX network in the city of Fez, Ifrane, Morocco*, March 2008.
- (6) Berthilson L., Escudero A. (poster, demonstrator), *Open hardware and software solutions for mobile services*, 1st International Conference on M4D Mobile Communication for Development, December 2008
- (7) Berthilson L., Escudero A., *Wireless voice network site survey and implementation plan in Owamboland, Schoolnet, Namibia*, December 2008.
- (8) Berthilson L., Escudero A., *Wireless voice network site survey and implementation Ouagadougou and Bobo Dioulasso, Burkina Faso*, February 2009.

4.3 Chapters In Books

- (1) *Escudero A., and Berthilson L., (chapter) "Voz sobre IP"* in (book) "Redes Inalámbricas en los Países en Desarrollo", (Second Spanish Edition of *Wireless Networking in Developing World*), August 2007
- (2) (scheduled) *Berthilson L., (chapter) "How to set up a rural Wireless Internet Service Provider in Africa"*, in (book) "Wireless Networking in Developing World" (Second English Edition), November 2007

5 TEACHING, SEMINARS AND WORKSHOPS

5.1 Teaching Courses (Academic)

- (1) *Communication System Design (2g1303)*, Royal Institute of Technology, 10 credits, 2003. (teaching assistant). *Information and Communication Technologies for Development, ICT4D*,
- (2) *Communication System Design (2g1319)*, Royal Institute of Technology, 20 credits, 2004. (teaching assistant).
- (3) *Connectivity and Regulatory Challenges (IB7000/211160/214360)*, Stockholm University, 1 credit. and

Localisation of Software 0.5 u Modules, (main coordinator of the modules with Alberto Escudero), November-December 2005.

- (4) *ICT4SD: Information and Communication Technologies for Human Development* (23404), 3 credits. May 5-16th 2008, University of Trento, Italy.

5.2 Tutorials, workshops and seminars

- (1) *Escudero A. and, Berthilson L.*, Wireless (WiFi) training units: Advanced Networking, Network Management, Budgeting and Planning, Troubleshooting, Community Wireless Connectivity Workshop, Mtoni, Zanzibar, Tanzania, April 2005.
- (2) *Escudero A. and, Berthilson L.*, Introduction to Internet Satellite connectivity, ICT for Development IB7000/2I1160/2I4360 Course, Online Tutorial, November 2005.
- (4) *Berthilson L.*, Primer to Localization of Software, ICT for Development IB7000/2I1160/2I4360 Course, Online Tutorial, November 2005
- (5) *Berthilson L, Escudero A*, Wireless training units: Antennas and Cables, Jan 2006
- (6) *Escudero A., and Berthilson L.*, Community Wireless Training, Makerere University, Kampala, Uganda, 6-17th November 2006.
- (7) *Escudero A., and Berthilson L.*, Community Wireless Training, Fantsuam Foundation, Kafanchan, Nigeria, 18th February- 8th March 2007.
- (8) Outcome Mapping Workshop, Cairo, Egypt 13-16th of May 2007.
- (9) *Berthilson L., and Escudero A.*, Community Wireless Training, Makerere University, Kampala, Uganda, 3-14th September 2007.
- (10) International Freedom of Expression Exchange (IFEX) ICT Forum, Montevideo, Uruguay, 7th October 2007.
- (11) *Escudero A., and Berthilson L.*, (with Inveneo) Community Wireless Advanced Training, Fantsuam Foundation, Kafanchan, Nigeria, 18-29th of February 2008.
- (12) *Escudero A., and Berthilson L.*, (Wireless Africa) Voice over IP and billing (a2billing) laboratory training workshop, Pretoria, South Africa, 16-21st of November 2008.

6 IMPLEMENTATION AND STANDARDIZATION

6.1 Implementations

- (1) Development of Content Management Systems for master courses at the Royal Institute of Technology for: Communication Systems Design, Internet Security and Privacy, Master programme of Internet Working, Master Thesis. 2003-2004.
- (2) KiPot - an open source (GNU) discussion board for glossary development to support localizations efforts (PHP3, MySQL), Dar es Salaam, Tanzania, Oct 2004
- (3) KamuziTZ - a local (Dar es Salaam) mirror of the Kamusi Project Internet Living Swahili Dictionary (ILSD), based at the Yale University Council on African Studies with search and data synchronization functionalities implemented, Dar es Salaam, Tanzania, Nov 2004
- (4) KiChapa - a multilingual search engine based on the localization work of OpenOffice.org 1.1.2m47 (PHP3, MySQL), Tanzania, Nov 2004
- (5) Localisation Resource Site, International Development Research Center (IDRC) Canada, World Summit of Information Society, Tunis, November 2005.
- (6) Voice over IP and Wireless Sandbox, International Development Research Center (IDRC) Canada, World Summit of Information Society, Tunis, November 2005.
- (7) LocaleGEN, a web based tool to support the creation of locale files for CLDR. March 2006.
- (8) Iraq Programme Web Portal, The Olof Palme International Center, 2007.
- (9) Localization coordination of 23 security softwares into four languages: Spanish, French, Russian and Arabic. November 2007 - April 2008.
- (10) The Media Sprinkler, A GSM-based gateway that bridges services of the global mobile network (GSM) with the Internet (IP). System Released, Stockholm, September 2008.

- (11) Afrigen, an online application designed for creation of African locales, October 2008
- (12) Glossmaster, a web based terminology tool for creation of dictionaries, March 2009

6.2 Standardization

- (1) Contributions to Common Locale Data Repository (CLDR) v1.4 , Unicode, July 2006.

7 MEMBERSHIP, GRANTS AND AWARDS

7.1 Projects and Awards

- (1) Localization of Open Source Software to Swahili, Swedish International Development Agency (SIDA), Dar es Salaam, Tanzania, September 2004 - February 2005.
- (2) Community Wireless Resource Center, International Development Research Center (IDRC) Canada, Makerere University, Uganda. 2006-2007.
- (3) Rural Wireless Community, Fantsuam Foundation, International Development Research Center (IDRC) Canada, Kafanchan, Nigeria, 2006-2007.
- (4) Stockholm Challenge Award 2006, Education, Kilinux, Swahili Localization, May 2006.
- (5) Stockholm Challenge Award 2008, Economical Development (finalist), Zittnet, May 2008
- (6) Member of Wireless Africa, International Development Research Center (IDRC), CSIR, South Africa, 2008-2010
- (7) The African Network for Localization, International Development Research Center (IDRC), Translate.org.za South Africa, 2008-2010