

# CURRICULUM VITAE

## PERSONAL DATA

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Citizenship Canadian

## SUMMARY OF PROFESSIONAL EXPERIENCE

Experience in all aspects of the management, acquisition and support of complex information systems and networks in support of teaching, research, engineering, business and medical applications. Veteran educator and senior manager with significant personnel, budget and policy experience.

Experienced consultant in the use of technology in developing countries in support of poverty alleviation, education, economic growth and national development.

Elected Trustee of the Internet Society (ISOC), 2001-2004; Internet Corporation for Assigned Names and Numbers (ICANN), At-Large Advisory Committee, 2006-present; ICANN Generic Names Supporting Organization Council Member, 2006-present.

## DEVELOPMENT ACTIVITIES SUMMARY

1995 – 2001 Supported and later managed Internet Society Network Training Workshops which trained personnel from 140 developing countries who were instrumental in bringing the Internet to their countries.

2003-present Consultant to national and international development cooperation agencies with a focus on:

- Readiness assessments, both on a national and institutional level
- Post-completion project assessment
- Evaluation and assessment of ICT for Development programs
- ICT for Development strategies
- Computer and network security

Active in: Mozambique, Nicaragua, Rwanda, Sri Lanka, Tanzania, Uganda

Assignments on behalf of: Germany, Sweden, Switzerland, The Netherlands, World Bank *infoDev*, UN agencies (UNCTAD, CSTD)

## DEVELOPMENT ASSIGNMENTS OVERVIEW

### Readiness Assessments

- 2008 The assignment focused on assessing the requirements for administrative and library computing infrastructure to replace largely manual operations at the National University of Rwanda. Primary systems included finance, student information and human resources. The university's learning management and library systems were also reviewed. A key aspect was an assessment of the ability of the university to participate in the development of these systems, and then provide ongoing support. The project was done on behalf of the Netherlands Organisation for International Cooperation in Higher Education (Nuffic).
- 2002, 2006 National readiness assessments were performed in Sri Lanka and Mozambique evaluating the countries ability to use technology to address development issues with a specific focus on the inhibitors and critical success factors.
- 2002-07 In conjunction with reviews of earlier projects at universities in Nicaragua, Rwanda, Sri Lanka, Tanzania and Uganda on behalf of the Swedish International Development Cooperation Agency (Sida), assessments were performed regarding the ability of the institution to effectively implement follow-on projects. These projects included the general adoption of technology to assist all aspects of university life include administration, research and teaching/learning; the use of networks to enhance such applications,

### ICT for Development Effectiveness and Policy Development

- 2005 A key study looking at whether technology can really be used to address core poverty issues (with poverty being defined widely and not purely financial aspects). In the preceding decade, there had been a wide-spread belief in the ICT and donor communities that ICT could be an important component of poverty alleviation in the developing world. Significant investments had been made, but there was no hard evidence that the results had been effective, cost-effective, scalable and reproducible. The conclusion of the study was that technology is important, but that the key is not to focus on technology as an end unto itself, but to address poverty and development needs and use technology where it can support these ends. Consideration was also given to the national requirements to be able to effectively use information and communications technologies as enablers.
- 2006 An evaluation of Sida's overall program supporting university ICT infrastructure and education.
- 2007 An evaluation of Swedish support of ICT in its development cooperation program in Tanzania.
- 2008 A draft position paper (strategy) on the use of ICT in development cooperation for the German Ministry for Economic Cooperation and Development (BMZ).
- 2009 A critique of ICT for Development strategy for the United Nations Conference on Trade and Development (UNCTAD) and the UN Commission on Science and Technology for Development (CSTD).

### Computer and Network Security

- 2003 Co-authored *Information Technology Security Handbook*, a comprehensive security manual targeted towards all sectors in developing countries.
- 2002-2009 Consultation of security issues embedded in other assignments.

## **FOCUS ON EDUCATION**

For over 40 years, have participated in all aspects of education, with a particular focus on how technology can enhance effectiveness.

Teacher and educator, both in formal and informal settings, for over 30 years. In this same time-frame, was actively involved in developing, supporting, managing and proselytizing for the judicious use of technology as an augmentation (or at times partial replacement) of the traditional teaching environment. Responsible for building and overseeing the ICT infrastructure needed to carry out both administrative, teaching and research missions.

At both a technical and policy level, was a leader in the creation of pre-Internet local and national networks, McGill's campus communications network, the creation of the Quebec research and education network (RISQ), and the Canadian research and education network (CA\*Net). RISQ and CA\*net introduced the Internet to Canada. Pioneered the use of customer-owned fibre-optic networks which have since been universally adopted.

## **INTERNET DEVELOPMENT**

- 1995-2001 The Internet Society (ISOC) workshops program brought together world-class networking professionals who volunteered their time to teach individuals from developing countries how to create, support, manage the Internet in their countries, as well as how to leverage this infrastructure to support network services applications. Supported and later managed workshops in Montreal, Canada; Kuala Lumpur, Malaysia; Geneva, Switzerland; San Jose, USA; Fujisawa, Japan and Stockholm, Sweden. Most countries connecting to the Internet and expanding connectivity since 1993 did so with the support of personnel trained at these and related workshops. Responsibilities included overall strategy, site preparation arrangements, provision of equipment and training staff, student selection and fund-raising.
- 2001-2004 Elected Trustee of the Internet Society. The Internet Society is the organizational home of the Internet Engineering Task Force (IETF) and the Internet Architecture Board (IAB), the organizations that set the technical rules and protocols under which the Internet functions.
- 2006- Member of the At-Large Advisory Committee (ALAC) and Liaison to the Generic Names Supporting Organization (GNSO) of the Internet Corporation for Assigned Names and Numbers (ICANN), the organization for the domain name and IP address management of the Internet. Currently Vice-chair of the ALAC.

## **EMPLOYMENT SUMMARY**

- 1981 - 2001 McGill University – Montreal
- Director of Computing and Telecommunications (1987-1999)
  - Acting Director, Computing Centre (1986-87)
  - Associate Director - Technology, Computing Centre (1984-86)
  - Manager, Special Systems, Computing Centre (1981-84)
- 1980 - 1981 IBM Research Division, Yorktown Heights, New York
- Visiting Scientist, Computer Systems Group (on leave from McGill)
- 1967 - 1980 McGill University - Montreal
- Manager, Communications (and other) Systems, Computing Centre (1974-80)
  - Systems Programmer/Manager, Computing Centre (1967-1974)

## ACADEMIC APPOINTMENTS

- Lecturer, McGill Continuing Education Courses (1968-72)
- Lecturer, McGill School of Library Science (1979-80)
- Faculty Lecturer, McGill School of Computer Science (1973-2001) - Speciality: Computer design and architecture

## EDUCATION

B.Sc. (Major Physics), McGill University (1967)  
M.Sc. (Computer Science), McGill University (1973)

## SELECTED REPORTS AND PRESENTATIONS

ICT as an Enabler for Poverty Alleviation - <http://www.eldis.org/fulltext/sidaictpoverty.pdf>.

Assessment of the development of ICT at Makerere University in Uganda - [http://www.sida.se/shared/jsp/download.jsp?f=Utv05-17\\_SIDA4833en.pdf&a=3557](http://www.sida.se/shared/jsp/download.jsp?f=Utv05-17_SIDA4833en.pdf&a=3557).

ICT Readiness in Mozambique - <http://www.sida.se/shared/jsp/download.jsp?f=SIDA2608en ICT+Moz+2006+web.pdf&a=2742>.

Support of technology in Education at Sida - [http://www.sida.se/shared/jsp/download.jsp?f=SIDA30086en\\_Utv06-13.pdf&a=25086](http://www.sida.se/shared/jsp/download.jsp?f=SIDA30086en_Utv06-13.pdf&a=25086).

Support for ICT at Sida - [http://www.sida.se/shared/jsp/download.jsp?f=Utv2008-07\\_SIDA42341en.pdf&a=37341](http://www.sida.se/shared/jsp/download.jsp?f=Utv2008-07_SIDA42341en.pdf&a=37341).

Swedish support of ICT in Tanzania - [http://www.sida.se/shared/jsp/download.jsp?f=Utv07-47\\_SIDA40268en.pdf&a=35268](http://www.sida.se/shared/jsp/download.jsp?f=Utv07-47_SIDA40268en.pdf&a=35268).

Presentation on the successful use of ICT4D – WITFOR 2009 Conference - <http://www.witfor2009.org.vn/upload/Can%20we%20make%20ICT%20for%20Development%20REALLY%20work.ppt>.