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Dr. Peter R. Croll *BSc(hons), PhD, FACS, FBCS CIIP, CEng.*

Objective To improve our quality of life by promoting the virtues of Health Informatics and establishing it as a risk-based discipline akin to safety-critical and other safety-related software developments.

Employment

2007 - date Better Life ICT Brisbane
Owner/ Director ICT Consultancy

- Established innovative products and consultancy company in health IT
- Agreement signed with Brisbane North Development Forum to develop a secure Gigabit eHealth platform for video and message streaming.
- Funded by Saudi Arabia to consult on their Health Informatics program.
- Delivered Health IT privacy and security impact risk assessment consultancy for a leading international company.

2004–2007 Queensland University of Tech. Brisbane
Professor Software Engineering

- Awarded over \$750k external grants for Information Security Institute.
- Led significant ARC projects on e-health security and privacy leading to demonstration products of new ultra-secure architectures (SE Linux).
- Established National Privacy and Security forums in Health Informatics.
- Co-founder and research leader Queensland Smart Home Initiative.
- Awarded prestigious National Fellowship on CSIRO Preventative Health Flagship, resulting in:
 - Development of Medical Data Access software demonstrator to ensure privacy and security compliance for data custodians.
 - 14 presentations/ 3 keynotes in 9months, national/int. events.
 - E-Health futures business case report, CSIRO's senior executive.

1999–2004 University of Wollongong NSW
Head, School of Information Technology / Professor Software Engineering

- Directly responsible for the management and budgeting for 2,500+ students, 51 Full-Time staff, 80 casual staff, 80+ researchers.
- Changed school's culture to more research focus to include:
 - Doubled school's research publications output (33% Int. journals).
 - Raised school's competitive research awards (\$1.2M in 2002).
 - Increased postgraduate research students from 30 to 80 (2001-3).
 - Recognition through 3 new research professor positions granted.
- Revised the undergraduate and postgraduate curriculum and established new degrees, e.g. industry-based IT, Health Informatics.
- Established and Directed the University's CISCO regional academy.

1990–1999 University of Sheffield UK
Senior Lecturer in Computer Science

- Awarded \$4 million in grant funding for software engineering research.
- Built strong industrial collaborations, Rolls Royce, Toshiba, British Gas.
- Developed tools: automating safety analysis of complex S/W systems.

1983–1986 Singapore Polytechnic Singapore

Lecturer in Computer Science

- Established Unix labs and video-based training programs.

1978–1983 Kratos/Apoloco Ltd. Staffordshire, UK

Senior Electronic Design Engineer

- Research and Development of microprocessor-based controllers for scientific equipment e.g. ultra-centrifuges, high speed printing machines, copy lathes and intrinsically safe mining equipment.
 - Government consultancies for the UK, Dept. Trade and Industries.
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Education

1986–1989 Sheffield University UK

- **PhD Computer Science** – distributed embedded systems.
- Completed on schedule with no revisions within three years.

1974–1978 University of Teesside UK

- **BSc. Honours in Computer Science and Mathematics.**
 - Incorporating one year industrial experience (sandwich course)
COBOL System Analyst for Cleveland County Council, Teesside.
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Funded Consultancies

Tunstall Asia Pacific – Contracted to undertake a Risk Assessment of online IT services for an International organization to evaluate the Privacy and Security risks with Health data management. Outcome: executive board report on security and privacy technical and governance risks.

Brisbane City Council, City Policy & Strategy Division – Contracted to produce a report on the use of software engineering methods utilizing structured programming techniques to facilitate Red-Tape reduction (Regulation Design).

CSIRO, Contracted to the Preventative-Health Flagship project to undertake detailed investigation and reporting to senior executive on “Minimising Privacy and Security Risks with Health Data Linkages”.

Amlink International – Contracted to produce an expert’s report on Software Engineering for a court case –the first case of its type in Australia to challenge the assumptions that code reuse implies that the IP is not new.

Simpson Centre, Liverpool Hospital, Sydney – Contracted to develop application software (LinkIT) for linking disparate, legacy health data on the MINET project.

ITC Corp., Wollongong – Contracted as a Vocational Education and Training expert to research the top reputable providers of IT vendor accredited training courses in Australia.

E-Enabled – Established a ‘dot com’ for training SME’s interested in adopting e-commerce, funded by Telstra and a consortium of local SMEs.

Australian Tax Office – Commissioned as a software engineering expert for a consultancy on ‘Tax deductibility of commercial website development expenditure’ to develop tax ruling TR2000/D6.

Tradegate ECA: Consultancy to undertake a detailed security evaluation of a commercial e-commerce financial web application product prior to launch.

CCH publishing – A consultancy to produce a report for non IT specialists aimed at managers and accountants on the latest ‘Trends and Technology’ of e-commerce.

Interests

Board Directorships (Health Informatics Society of Australia Ltd. & International Association of Privacy Professionals iappANZ), Chair for Professional society forums (Computing/Health Informatics, Privacy), Organizing National/International conferences/workshops (ICT, eHealth), Running Club, Lifesaving (SLSC patrol Redcliffe) and Karate (GKR).

Publications

Over 100 publications in international journals, refereed conferences and books. Some selected examples include:

PR Croll, Special Issue: **Health Information Privacy and Security**, electronic Journal of Health Informatics ww.eJHI.net, Vol 3, No 1 (2008).

¹PR Croll and J Croll, **Investigating Risk Exposure in e-health Systems**, International Journal Medical Informatics, Nov 2006, Vol. 76, Issue 5-6, pp 460–465.

PR Croll, **Privacy Impact Assessments – the Organisation versus the Individual's viewpoints**, Health Informatics Conference HIC'08, Melbourne.

PR Croll, **Are undue Privacy concerns putting our Health Research at high risk?** Privacy Law Bulletin, LexisNexis Butterworths, vol. 2, no.10, April 2006, pp139-140.

PR Croll, et al., **Utilizing SELinux to Mandate Ultra-secure Access Control of Medical Records**, IMIA's International Medical Informatics conference, MEDINFO 2007, Brisbane, Australia.

PR Croll. J Croll, **Usability Evaluations in Community Health Systems**, the International Conf. on Qualitative Research, QuallIT, Nov 2004, Brisbane.

KT Win, PR Croll, **Engineering Dependable Health Information Systems**, book chapter in: Creating Knowledge Based Healthcare Organization, eds: Wickramasinghe, Gupta, Sharma, IGP pub. Chapter VIII, 2004, pp.91-110.

PR Croll and J Croll, **Q.U.i.P.S. a Quality Model for Investigating Risk Exposure in e-Health Systems**, IMIA's International conference on Medical Informatics, MedInfo2004, San Francisco, 2004.

PR Croll, et al., **Tax treatment for e-business website development**. In the E-Business Review. V.2: 2002. ISBN 0 9707955 1 3.

PR Croll, Paul Greenfield, Phillip Mc Crea, **Trends and Technology of E-Commerce**, CCH Australia Ltd., ISBN 1 86468 416 X, Jan 2000.

Technical Reports

The following technical reports written by Peter Croll represent a selection that have all been commissioned by external companies or government agencies:

Tunstall Asia Pacific– executive report on Privacy Impact Assessment of IT Health Data management (41 pages).

Health Informatics Society of Australia (HISA Ltd.) report to Australian Law Reform Commission (ALRC) Privacy Law Review DP72 (28 pages)

Brisbane City Council – executive report on Regulation Design through Structured Programming (15 pages)

Health Informatics Society of Australia (HISA Ltd.) report to Australian Law Reform Commission (ALRC) Privacy Law Review IP 31-32 (33 pages)

CSIRO Preventative Health Flagship – report to CSIRO's senior executives on the privacy risks with health data linkages (67 pages).

Australian Government's Access Card Consumer & Privacy Taskforce report on proposed Health & Social Services Access Card (3 page exec. summary)

Australian Tax Office (ATO) - report on tax ruling TR2000/D6 (24 pages)

Illawarra Technical Corporation, Wollongong report on the top reputable providers of IT vendor accredited training courses in Australia (40 pages).

CCH publishing a report for managers non IT specialists on the latest 'Trends and Technology' of e-commerce (100+ pages).

Amlink International - expert witness report on software analysis for the Brisbane courts (25 pages)

¹ Selected for the IMIA '2006 Year Book' representing the best Health Informatics papers in 2006 internationally.

Keynote Presentations and Conference Chair

The following provides a selection of invited Keynote Presentations and Conference Chair services by Peter Croll from a full list of over 50:

Conference Chair of HISA's inaugural national 'Health Privacy Futures' conference HPF'08, Brisbane 10-11th Nov 2008.

Invited Keynote "**Stopped in your tracks – mitigating potential health ICT showstoppers**" for the Annual State Conference of the Australian College of Health Services Executive (ACHSE) - QLD, Gold Coast. May 2008.

Invited Keynote "**Privacy and Security of Health Data - the Risks and Challenges for e-Health**", Saudi Arabian e-Health Conference 2008 'Towards National e-Health', King Faisal Conference Hall (Intercontinental Hotel) Riyadh, Saudi Arabia. March 17-19, 2008.

Invited Keynote "**Advances in Security and Privacy with Healthcare applications**", Ubiquitous Health Conference, Busan, S. Korea, 2 Feb 2007.

Invited panel presenter: "**Global Standardisation of Certification Requirements and Fostering Management Specialists**", Joint Panel for IMIA's WG 4 (Security) and WG 1 (Education), and JHIFT Joint Panel Session. 21st Aug 07, International Medical Informatics Conf. Medinfo2007.

Conference chair and invited keynote presenter "**Privacy Compliance - the challenges and the role for ICT**", National Symposium for e-Health Privacy and Security ehPASS06, Brisbane, 25 Oct 2006.

Invited guest presenter "**How to maximally utilise your register's clinical information while remaining legally and ethically compliant**", AHRDMA Information Confidentiality Workshop, 23rd October 2006, Brisbane.

Invited Keynote presentation "**From Mathematics to Management - Privacy and Security Risks with Electronic Health Data Linkage**" for the Annual State Conference of the Australian College of Health Services Executive (ACHSE) - QLD, Gold Coast. 19th May 06.

Invited keynote international presenter on "**e-health security risks**" at the International Medical Informatics Association working conference WG4 "Security in Health Information Systems" in Dijon, France, 29th April 2006.

Conference chair of the inaugural IEEE International Conference on "**Software Methods and Tools**", Wollongong Nov. 2000 (SMT 2000);

Conference chair of the 1st, 3rd and 4th (Berlin 1996, Kyoto 1998, Los Angeles 1999) **International Symposium of Software Engineering for Parallel and Distributed Systems (PDSE)**.

References

The following people can testify to my character and my ability to carry out timely and technically competent project work:

Dr Brendon Lovelock², PhD
Chief Executive Officer, Health Informatics Society of Australia Ltd
Mobile: **0400 418 103** Email: **Brendan.Lovelock@hisa.org.au**

Emeritus Professor Bill Caelli³ AO, Ph.D. FACS, FTICA, Sen. MIEEE, CISM (Hon)
Director IISec, International Information Security Consultants Pty Ltd
Mobile: **0414 987 952** Email: **w.caelli@iisec.com.au**

² Dr Lovelock has relied on my services on numerous occasions to deliver high level reports and government submissions relating to Health IT. He can confirm my ability to liaise widely with stakeholders in health and deliver comprehensive summaries of key issues.

³ Prof. Caelli was my manager at the Queensland University of Technology. He can vouch for my technical knowledge and pragmatism towards ehealth projects together with my abilities to network with key people and organise significant events.