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Dr. Peter Croll, PhD, CHIA, FACS CP (Cyber Security)

SKILLS & ABILITIES

- Strong track record for building reputation and organisational growth for both industry and higher education.
- Substantial experience in the directorship and management of ICT institutes and research centres that aimed to attract top quality staff and increase their international profile;
- Proven expertise in setting and meeting realistic KPI's in demanding and changing economic environments.
- Highly regarded managerial and technical IT knowledge, with strong evidence of a visionary approach that leads to the delivery of practical outcomes.
- Strong focus on Cyber Security, Privacy and Safety of IT systems, particularly for Health Informatics (eHealth).
- Professional Certifications in Cyber Security CPCS¹ and Health Informatics CHIA.
- Wide-ranging experience of dissemination through publications and workshops to managers, researchers and practitioners in industry.
- Proven track record at organising national and international conferences, seminars and workshops to successfully achieve both the educational and financial objectives;
- Solid track record of attracting income from competitive sources, including both government funding bodies and directly from industry.
- Proven capabilities through awards in community engagement that involved a wide range of multidisciplinary stakeholders.

EXPERIENCE

DIRECTOR, PETER CROLL CONSULTANCIES, BRISBANE, QLD

Expert Consultant, Cyber Security and Privacy (www.PeterCroll.com)

2007-date

- Owner and director of a specialist consultancy providing **Cyber Security and Privacy Expertise** serving government, industry and academia.
- Fixed term contract as Head of ICT school University of South Pacific, Fiji:
 - Initiated their first postgraduate degree program in Cyber Security (Cyber Security Principles, Cyber Crime, Cyber Defence, Governance, Risk and Network Security);
 - Led a Strategic Research Grant on Cloud platforms for Data-Driven Research;
 - Led an ICT department as line manager for 40 staff with full budget responsibilities.

¹ ¹ Cyber Security Certification (CPCS) Note that this recently introduced Australian Professional Certification has equivalence (skills, qualifications and experience) with a Certified Information Systems Security Professional (CISSP) from ISC², [as stated here](#).

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- Funded by the Australian federal government to produce three eBooks for Australian businesses on Business Information Systems - Cyber Security, Privacy and Cloud Risks.
 - Re-elected by the Australian Computer Society (ACS) members to serve on the on the Queensland's Branch Executive Committee, 2015-2019.
 - Funded by the Australian Computer Society to tour all Australian capitals and present for their prestigious Education Across the Nation (EdXN) program on "**Privacy is your Problem** – how to be Empowered not Enslaved"
 - Voting in as chair of the International Medical Informatics Association (IMIA) Working Group 4: '**Security in Health Information Systems**'.
 - Initiated and chaired three international workshops for International Medical Informatics Association (IMIA) on the global protection of health information in Copenhagen (2013), Istanbul (2014) and Sao Paulo, Brazil (2015).
 - Successfully delivered a definitive 315 page book as the convener for '**Australian Guidelines for the Protection of Health Information 2015**' for clinicians and health data custodians to improve their best working practice of the protection of sensitive data.
 - Obtained a Cert IV in '**Small Business Management**' (BSB40407) and maintaining my ongoing '**Certified Professional (Cyber Security)**' status with the Australian Computer Society and as a '**Certified Health Informatician**' with the Health Informatics Society of Australia.

DIRECTOR OF RESEARCH, BUSINESS SCHOOL, SOUTHERN CROSS UNIVERSITY, NSW

2009-2013

- Academic leader of IT as their foundation **Professor of Information Technology and Information Systems** in the Business School.
- **Acting Pro-Vice Chancellor** and **Dean** of Faculty, Business and Law for 8 months, responsible for \$50 million of school budgets and managing 17 off-shore programs.
- Awarded the Vice Chancellor's **Award for Excellence in Community Engagement** for the collaborations with Federal Government Ministers and MPs; NBN Co.; Coffs Harbour City Council and 400 local business engaged in the NBN roll-out.
- Led and taught the '**Project Management**' unit for the **Master of Business Administration** (MBA) with 50 local students and 150 based in Auckland, Singapore & Kuala Lumpur.
- Initiated a major review and revision of higher degree student administrative and application procedures to introduce a new 'student-centered' charter.
- Engaged in cross disciplinary research with the school of Health resulting in significant successful grants from the Department of Health and Aging.
- Organised as chair the National Conference on Health Informatics in Canberra where two Australian Federal Ministers were secured as keynotes.
- Awarded National Competitive Grant (Category 1) funding to visit and collaborate with Beijing University of Technology on Sharing Personal Health records.
- Initiated and led the 'GoBroadband' initiative which resulted in securing Coffs Harbour as an early roll-out site for the National Broadband Network (NBN).
- Secured substantial NSW state funding from the Industry and Investment division to establish an SME drop-in centre for the NBN.

DIRECTOR, CENTRE IT INNOVATION, QUEENSLAND UNIVERSITY OF TECHNOLOGY, BRISBANE

2004-2008

- Established a new degree in **Software Engineering**
- The formation of new research initiatives to include: Industry Affiliation Program; successful funding from CSIRO and National ICT Australia (NICTA); successful ARC grant to research a secure 'Mandatory Access Control' data warehouse.
- Awarded National Fellowship - CSIRO's National Flagship on Preventative Health, \$128K awarded for investigating: 'Minimising Privacy and Security Risks with Data Linkages'.
- Organised, as conference chair, the inaugural National symposium on Security and Privacy of e-Health (ehPAS'06) in Oct 2006.
- Working with USQ's CAAIR and various industry partners to secure \$110K state funding for the Smart Homes for the Elderly, ehealth initiative.

HEAD, SCHOOL OF IT AND COMPUTER SCIENCE, UNIVERSITY OF WOLLONGONG, NSW

1999-2004

A wide range of demanding responsibilities as Head of School of IT and CS (SITACS). The school's on-campus enrolment exceeded 1,300 students plus an extensive off-shore programs in Dubai, Malaysia, Singapore, Hong Kong and China. This included direct leadership and management responsibility for 50 full time academic staff, 6 admin staff, 5 Research Associates, 80 casual staff and 70 higher degree (PhD) students.

- Changed school's culture to more research focus to achieve: 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 Master-level degrees, e.g. industry-based IT, Health Informatics.
- Liaised with the Australian Computer Society to ensure all Wollongong's core degrees were re-graded to the ACS 'Professional Level'.
- Chair of the Education and Training committee for the Cooperative Research Centre for Smart Internet Technologies.
- Established and directed the University's CISCO regional academy.

PHD RESEARCHER/SENIOR LECTURER OF COMPUTER SCIENCE, UNIVERSITY OF SHEFFIELD, UK

1988-1999

- Awarded \$4 million in grant funding for software engineering research: developing tools to automate safety analysis of complex software systems.
- Built strong funded industrial collaborations with Rolls Royce, Toshiba and British Gas.
- Key player in developing the 'Software Hut' initiative that incorporated real industrial clients and awarded a substantial HEFCE grant supporting the program.
- Government consultancies for the UK, Dept. Trade and Industries.

**EDUCATION AND
AWARDS**

ACADEMIC QUALIFICATIONS

Ph.D. Computer Science.
BSc. (Hons) Computer Science

INSTITUTION

University of Sheffield, UK
University of Teesside, UK

AWARDS/FELLOWSHIPS	YEAR	DESCRIPTION
Vice Chancellor Award	2010	Award for Excellence in Community Engagement
CSIRO National Fellow	2006	National Research Flagship, Preventative Health
FACS CP	2002	Fellow & Cert Professional Australian Comp. Soc.
CHIA	2017	Certified Health Informatician Australasia
CP (Cyber Security)	2018	Certified Professional in Cyber Security, ACS
MEMBERSHIPS	YEAR	DESCRIPTION
HISA Ltd.	2002	Vice President, Health Informatics Society
Deans of ICT	2009	Member of the Deans of ICT council
Australian Computer Society	2007	QLD, Executive Committee

COMMUNICATION

Dr Croll has extensive experience at presenting workshops, keynote addresses at international conferences, roundtable discussions and seminars. The following are the more recent from over 50:

- Invited Keynote Speaker, Conference Chair and Cyber Security Workshop organizer, 11th Australasian Conference on Health Information and Knowledge Management (HIKM), University of Queensland, 1-2 Feb 2018.
- Cyber Security Stream Leader and organiser for the Australian Computer Society's (ACS) Queensland State conference, Brisbane, 24-25 Oct 2016
- International workshop organiser "Global Protection of Personal Health Data" at the International Medical Informatics Association (IMIA) international conference MedInfo, São Paulo, Brazil 2015.
- International workshop organiser: "Impact of New Health Models on Information Privacy and Policy-Driven Management of Personal Health Information" at the Medical Informatics Europe, MIE 2014, Istanbul.
- International workshop organiser: "Security in Health Information Systems" at the International Medical Informatics Association (IMIA) international conference MedInfo, Copenhagen, 2013.
- Invited funded Keynote speaker: "Implications of the Privacy Amendment Bill for Health Information Professionals", 30th Annual National Conference, Health Information Management Assoc. of Australia (HIMAA), Adelaide, Oct 2013.
- Invited funded speaker: "Protection of Health Information, Guidelines for Compliance", Australian Diabetes Society (ADS) and Diabetes Educators Association (ADEA) Annual Conference, Sydney, Aug 2013.
- Invited funded speaker - televised round table panel debate with 30 Australian leading thinkers in healthcare, Digital Hospital Design Health System Interaction Service Delivery, Health Informatics Conference, July 2013.
- Invited Speaker and workshop organiser: "Privacy Workshop - Big Data not Big Brother", HISA's Big Data Conference, Melbourne, April 2013
- Keynote Presentation "Privacy in the Cloud - an Australian eHealth Perspective", ICETT 2012, Quilon, India 2012
- Keynote presentation "Privacy in the Clouds - Securing Health Information in Uncontrollable Environments" JCMIT 2011 Graduate Inst. of Biomedical Informatics, Taipei Medical Univ., Taiwan Nov 2011

CONSULTANCIES

Dr Croll has over 20 years of consultancy experience across a wide range of computer systems and application domains. Examples include safety systems, distributed systems, e-commerce, eHealth and risk management plus higher education and vocational training. He is skilled at explaining complex technical issues to the non-specialist at all levels. This includes as an expert witness in major litigation court case. This is a selection of Dr Croll's funded consultancies:

- Contracted by Queensland Cyber Infrastructure Foundation to evaluate their QRIScloud platform for Trustworthiness in Privacy and Security.
- Contracted by the Department of Employment to produce five books on Cyber Security and Privacy aimed at small to medium businesses (SMEs).
- Contracted by MedicAlert Australia to undertake a full Privacy Impact Assessment of their online membership service.
- Contracted by WebSense to develop materials for the leading Health CIO's on Data Breach and Privacy Impact and the forthcoming APPs.
- Contracted to develop a report on Privacy Impact of the "Assessment of Telehealth Implementations and Associated Requirements". Department of Health and Ageing (DoHA).
- National E-Health Transition Authority (NEHTA) – Contracted to support NEHTA's Privacy and Policy Unit to analyse and workshop with the reference groups the national proposals for electronic medication management and secure messaging.
- Tunstall Asia Pacific – Contracted to undertake a Risk Assessment of online IT services for an International organisation to evaluate the Privacy and Security risks with Health data management. Outcome: executive board report on technical and governance risks with IT security and privacy.
- 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".
- Australian Tax Office – Contracted as a software engineering expert to consult on 'Tax deductibility of commercial website development' under tax ruling TR2000/D6.

LEADERSHIP

In addition to his roles as Head of School, Pro Vice Chancellor (Business and Law), Director of Research Institutions, Dr Croll has demonstrated leadership through his extensive experience of conference organisation. The following is a selection of over 25 such events he has chaired:

- Chair of 11th Australasian Conference on Health Informatics and Knowledge Management, Brisbane, Feb 2018
- Chair of International Medical Informatics Association (IMIA) WG4 'Security of Health Information Systems'. Dr Croll initiated and chaired three well attended international workshops in São Paulo (2015), Istanbul (2014) and Copenhagen (2013)
- Conference chair for Health Informatics Conference, HIC'2009, the Health Informatics Society HISA's premier conference, "Frontiers of Health Informatics - Redefining Healthcare", Canberra, 19-21 Aug 2009.

- Conference chair for Health Privacy Futures HPF'08, HISA's inaugural national conference on ehealth Privacy and Security, Brisbane, Nov 08
- Symposium Chair and Organiser at MedInfo'06 for the Inaugural National Symposium on 'e-Health Privacy and Security' ehPASS'06, 24-26th Oct 2006.

TECHNICAL REPORTS

In addition to the 150+ academic papers (full CV available on request), Dr Croll has produced the following technical reports. This represents a selection that have all been commissioned by external companies, professional societies or government agencies. The following shows a recent selection.

- Submission to Australian federal government's Productivity Commission Inquiry into Data Availability and Use, 2017.
- Submission to the Australian Government's Dept. of Health in regard to their "Electronic Health Records and Healthcare Identifiers: Legislation Discussion Paper" on behalf of: Health Informatics Society of Australia and Health Information Management Association of Australia, June 2015.
- Executive report for the board of MedicAlert Foundation® on 'Privacy Impact Assessment of online services', July 2014.
- Executive report for Diabetics Australia Ltd. 'High-Level report on the Privacy Impact for the new NDSS application forms, Privacy Statement Policy and their suitability for the forthcoming amendment to the Privacy Act', 21 Nov 2013.
- Executive report for the Australian Government's Department of Health and Ageing on 'Telehealth Business Case, Advice and Options' 2011
- Submission to Australian Government's Dept. of Health and Ageing on the proposed 'Regulations for the Healthcare Identifier Bill', April 2010.
- Submission to the Australian Senate Community Affairs Legislation Committee to the inquiry into the "Health Identifiers Bill 2010", Mar 10.
- Submission: Senator Stephen Conroy, the Minister for the Department of Broadband Communications and the Digital Economy: "The benefits of early adoption for the National Broadband Network spanning Australia's Eastern Regional Corridor", 2010.
- Submission to the Ministerial Review of Australian Law Reform Commission Privacy Report, Jan 2009.

Referees who have worked closely with Dr Croll (more available on request):

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