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DR. PETER CROLL, PHD, CHIA, FACS CP

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 Privacy, Security and Safety of IT systems, particularly in regard to Health Informatics (eHealth).
- 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 AND ASSOCIATES, BRISBANE, QLD

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

2007-date

- Owner and director of a specialist consultancy providing **Expertise for Trustworthy ICT Solutions** serving government, academia and industry.
- 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"
- Funded by the Australian federal government to produce five eBooks for Australian businesses on Business Information Systems Privacy and Security.
- 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 a '**Certified Professional**' status with the Australian Computer Society.

HEAD, SCHOOL COMPUTING, INFO. & MATHEMATICAL SCI., UNIVERSITY SOUTH PACIFIC, FIJI

Professor of Computer Science/ICT (contract)

Dec. 2016-2017

- Initiated and established USP's first postgraduate degree program in Cybersecurity.
- Developed full suite of materials for the Australian Computer Society's accreditation for USP's Software Engineering and Network Security undergraduate degrees.
- Leader of Strategic Research Grant on Cloud platforms for Data-Driven Research
- Lead an ICT department as line manager for 40 staff with full budget responsibilities.
- Voted on to the University Senate and various other university level committees.

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.
- Led '**Project Management**' for the **Master of Business Administration** (MBA) unit 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-centred' 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 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.
- 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.

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: an Industry Affiliation Program; successful funding from CSIRO and National ICT Australia (NICTA); successful ARC grant to research a secure Mandatory Access 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 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.	1990	University of Sheffield, UK
BSc. Computer Science (Hons)	1988	University of Teesside, UK

AWARDS/FELLOWSHIPS

	YEAR	DESCRIPTION
VC 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 Australia

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 significant experience at presenting workshops, key-note addresses at international conferences, roundtable discussions and seminars. The following are the more recent from over 50 he has undertaken:

- Invited Keynote Speaker and Conference Chair, "Providing the right balance - a holistic approach to developing safe health ICT-solutions", 11th Australasian Conference on Health Information and Knowledge Management (HIKM), University of Queensland, Brisbane, Feb 2018.
- 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 25 years of consultancy experience across a wide range of computer systems and application domains. Examples include safety systems, distributed systems, e-commerce, e-health and risk management plus higher education and vocational training. One particular skill Dr Croll has is explaining complex technical issues to the non-specialist. This includes experience as an expert witness in major litigation court case. Also, reports and publications aimed at today's managers that depend on IT to be successful in their business. This is a selection of his 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:

- As chair of Int. Medical Informatics Association (IMIA) WG4 'Security of Health Information systems', initiated and chaired three well attended international workshops in São Paulo (2015), Copenhagen (2013) and Istanbul (2014).
- 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 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, 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 more recent selection.

- 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.