

Curriculum Vitae

Christopher James Hilder

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Education

2009	Graduate Diploma in Teaching (Secondary Education) University of Otago
1989- 1994	Bachelor of Arts (Drama Major) University of Otago
1976- 1982	Bachelor of Science (Physics Major) University of Canterbury

Employment

2014-present	Business Analyst <ul style="list-style-type: none"> Analysis of medicines data and reports 	Best Practice Advocacy Centre Inc, Dunedin
2011-2013	Lead Developer/Information Architect <ul style="list-style-type: none"> Knowledge engineering Database specification, design, and implementation Content Management System development and deployment Web and user experience design 	New Zealand Formulary, Dunedin
2011	Teacher of Mathematics <ul style="list-style-type: none"> Years 9 to 13 	John McGlashan College, Dunedin
2010	Teacher of Mathematics and Digital Technology <ul style="list-style-type: none"> Years 10 to 13 	Columba College, Dunedin
2006-2009	IT Systems Analyst/Developer <ul style="list-style-type: none"> Consultant to Health Information Standards Organisation (HISO) Standards development Knowledge analysis System prototyping 	Best Practice Advocacy Centre Inc, Dunedin
2000-2006	Science Communicator <ul style="list-style-type: none"> Writing and designing <i>Astronomy in Your Hands</i> (web-based resource published at AstronomyInYourHands.com) Devising and presenting science theatre presented at International Science Festival, Dunedin; Reef Festival, Cairns; and Otago Museum, Dunedin) 	free lance
1998-2005	Lecturer <ul style="list-style-type: none"> Information Systems Management (2005) Information Technology (2004-05) Courses in networking (2003), programming (2002), investigative science (1999-2001), astronomy (1998-2001) , and drama (1993-1994) 	Otago Polytechnic and Dunedin College of Education (part time)
Since 1996	Fireworks Display Manager <ul style="list-style-type: none"> Dunedin sales Customer relations Documentation and consents Employing, training and supervising staff Designing, arranging and firing displays 	Firework Professionals Ltd, Christchurch

Professional membership

Institute of IT Professionals New Zealand

associate member

Information Architecture Institute

professional member

Awards

Award for Academic Excellence (Dec 2009)

awarded on the basis of my academic record in 2009 as the highest achieving student in my teacher education programme

Griffith Observatory Star Award (Sept 2004)

awarded for *Astronomy in Your Hands* website

Festival Challenge Cup (1997)

awarded for producing multi-ethnic group performances and special effects at the opening of the Dunedin Festival 1997

Other Relevant Qualifications

Driver's Licence (Heavy Traffic)

Hobbies and Interests

Embedded computing and robotics, observational astronomy, sundial design, rock climbing, tramping, reading, Ceroc dance, and community arts projects

Referees

- David Woods
Managing Editor
New Zealand Formulary
Level 7
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10 George Street, Dunedin 9016
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- Chris Churcher
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Summary

I

- ... grasp the big picture and focus on fine details at the same time.
- ... apply lean/agile methodology to the whole software engineering process.
- ... motivate and supervise staff in a positive way.
- ... express myself well in written and verbal communication.
- ... develop rigorously tested and well engineered code.

Portfolio

NZ Formulary

In 2011 NZ Medicines Formulary were looking for a way to convert a major electronic document, the British National Formulary, into a resource that was relevant to the NZ health system. On the face of it this was a matter of editing and rewriting the text. However, much more was expected: it was a requirement that databases of medicines, drug interactions, pharmacy labels, and so on, were incorporated into the text so that the writers did not have to enter this information. A seamless blend of database, knowledge base, and text documents was called for. I was engaged to engineer the blend. Working closely with a team of pharmacist writers and IT practitioners I designed a system that met the needs of both teams. I also played a large part in developing and delivering the product both as a web site and as a web service for incorporation in NZ health information systems. The [NZF](#) was successfully launched in July 2012.

NZ Universal List of Medicines

In 2008 the Ministry of Health wanted to create a single medicines database that could be used throughout the NZ health system to replace the multiple databases formerly in use. As principle consultant to the expert advisory committee I investigated several options, worked collaboratively to select a preferred solution, and developed an innovative way to represent the selected solution (an ontology or knowledge base) in a conventional database structure. A key to the success of this project was my ability to quickly develop a functional model that allowed the committee to experience the proposed system hands-on early in the decision-making process. The [NZULM](#) was subsequently developed from my designs.

Astronomy in Your Hands

In 2002 I developed a high quality paper star wheel, incorporating a good quality image of the Milky Way using custom-written software. I backed this up with classroom activities and a web site. My research into Māori star names enabled me to publish an authentic Māori version. [Astronomy in Your Hands](#) is an award winner and remains one of the most popular astronomy web sites on the Internet.