

Curriculum Vitae

# Christopher James Hilder

Chris 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	<b>Business Analyst</b> <ul style="list-style-type: none"> <li>Analysis of medicines data and reports</li> </ul>	Best Practice Advocacy Centre Inc, Dunedin
2011-2013	<b>Lead Developer/Information Architect</b> <ul style="list-style-type: none"> <li>Knowledge engineering</li> <li>Database specification, design, and implementation</li> <li>Content Management System development and deployment</li> <li>Web and user experience design</li> </ul>	New Zealand Formulary, Dunedin
2011	<b>Teacher of Mathematics</b> <ul style="list-style-type: none"> <li>Years 9 to 13</li> </ul>	John McGlashan College, Dunedin
2010	<b>Teacher of Mathematics and Digital Technology</b> <ul style="list-style-type: none"> <li>Years 10 to 13</li> </ul>	Columba College, Dunedin
2006-2009	<b>IT Systems Analyst/Developer</b> <ul style="list-style-type: none"> <li>Consultant to Health Information Standards Organisation (HISO)</li> <li>Standards development</li> <li>Knowledge analysis</li> <li>System prototyping</li> </ul>	Best Practice Advocacy Centre Inc, Dunedin
2000-2006	<b>Science Communicator</b> <ul style="list-style-type: none"> <li>Writing and designing <i>Astronomy in Your Hands</i> (web-based resource published at AstronomyInYourHands.com)</li> <li>Devising and presenting science theatre presented at International Science Festival, Dunedin; Reef Festival, Cairns; and Otago Museum, Dunedin)</li> </ul>	free lance
1998-2005	<b>Lecturer</b> <ul style="list-style-type: none"> <li>Information Systems Management (2005)</li> <li>Information Technology (2004-05)</li> <li>Courses in networking (2003), programming (2002), investigative science (1999-2001), astronomy (1998-2001) , and drama (1993-1994)</li> </ul>	Otago Polytechnic and Dunedin College of Education (part time)
Since 1996	<b>Fireworks Display Manager</b> <ul style="list-style-type: none"> <li>Dunedin sales</li> <li>Customer relations</li> <li>Documentation and consents</li> <li>Employing, training and supervising staff</li> <li>Designing, arranging and firing displays</li> </ul>	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  
Burns House  
10 George Street, Dunedin 9016  
ph +64 (3) 470 5048  
mobile +64 (21) 271 7720  
email david.woods@nzformulary.org
- Chris Churcher  
General Manager  
Best Practice Advocacy Centre Inc  
Level 9  
Burns House  
10 George Street, Dunedin 9016  
ph +64 (3) 470 5080  
mobile +64 (27) 641 0899  
email chris.churcher@bpac.org.nz

# 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.