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<b>Nationality</b>	Australian

## Employment Summary

<b>Contract</b>		<b>Casual</b>	
2007	Webshield <a href="http://www.webshield.net.au/">http://www.webshield.net.au/</a>	2004	AirNet Commercial Limited <a href="http://www.airnet.com/">http://www.airnet.com/</a>
2007	Mindvision Interactive 2003 <a href="http://mindvision.com.au/">http://mindvision.com.au/</a>	2001	McLaren Software Technology
2006	Megaw and Hogg - National Valuers 2005 <a href="http://www.megawhogg.com.au/">http://www.megawhogg.com.au/</a>		<b>Voluntary</b>
		2001	Glenunga International High School
		1999	

## Academic Highlights

- 2007 Awarded a Double Degree at [The University of Adelaide](#), South Australia  
[Bachelor of Engineering](#) (IT & T) with Honours  
Bachelor of Arts in Philosophy  
94% (High Distinction) Final Year Honours Project
- 2005 Attended a University Study Exchange  
[Royal Institute of Technology \(KTH\)](#) in Stockholm, Sweden
- 2001 Awarded [South Australian Certificate of Education \(SACE\)](#) with a 95 TER Score  
Glenunga International High School, South Australia  
Outstanding Achievement in Modern World History  
Student Representative Council Acknowledgement Award - Outstanding Work in Information Technology
- 1999 Awarded [International Baccalaureate Middle Years Programme](#)  
Glenunga International High School, South Australia  
Completed Year 12 Information Technology  
TER Score 18/A (Very High Achievement)  
Outstanding Achievement in Information Technology

# Summary of Major Open Source Contributions

Current		Previous	
cont	<b><a href="#">Thousand Parsec</a></b>	2006	<b><a href="#">Open Embedded</a></b>
2001	<i>Framework for creating space empire games</i>	2004	<i>System for cross compiling complete operating systems for embedded systems</i>
(cont)	Lead development of Python components		Maintained several packages for Open Zaurus
(cont)	Leading design of fourth version of Thousand Parsec Protocol		Maintained compatibility layer for Commercial Zaurus applications
2007	<a href="#">Google Summer of Code Mentor</a>		Contributed to BitBake build tool
2001	Founded project		
cont	<b><a href="#">libmng-py</a></b>	2002	<b><a href="#">Worldforge</a></b>
2006	<i>Python ctypes wrapper for the <a href="#">libmng</a> animation library.</i>	1998	<i>Oldest FOSS MMORPG framework</i>
	Primary Developer		Developed Chatworld Server
cont	<b><a href="#">schemepy</a></b>		Ran Chopping Block Newsletter
2007	<i>Library to allow Scheme code to be executed in Python applications.</i>		Admin for worldforge.net
	Primary Developer		

# Conference Organisation and Presentations

Organisation		Presentations	
2008	<i>Gaming Miniconf at Linux.conf.au 2008</i> Primary Organiser <a href="#">Primary Website</a>	2007	<i>The Best Things in Life are Free</i> Free Play <a href="#">Conference Link</a>
2007	<i>Gaming Miniconf at Linux.conf.au 2007</i> Primary Organiser <a href="#">Program Link</a>		<i>Gaming Miniconf Welcome</i> Linux.conf.au 2007, Gaming Miniconf <a href="#">Abstract Link</a> , <a href="#">Conference Link</a> , <a href="#">Video Link</a>
2006	<i>Embedded Miniconf at Linux.conf.au 2006</i> Assistant Organiser <a href="#">Program Link</a>	2005	<i>WorldForge - Idling Noisily Since 1997!</i> Linux.conf.au 2005, Main Conference <a href="#">Abstract Link</a> , <a href="#">Conference Link</a>
2005	<i>Embedded Miniconf at Linux.conf.au 2005</i> Primary Organiser <a href="#">Program Link</a>		<i>Embedded Miniconf Welcome</i> Linux.conf.au 2005, Embedded Miniconf <a href="#">Abstract Link</a> , <a href="#">Conference Link</a>

# Skills and Experience

## Programming Proficiencies

Proficient Languages		Other Languages	
~8 Years	Python, including Pyrex ctypes C API	~4 Years	SQL
~9 Years	PHP, including PEAR PECL (Zend C API)	~3 Years	Bash
~4 Years	C	~2 Years	C#
		~1.5 Years	Java
		~1 Year	Javascript
		~6 Months	VHDL
		~3 Months	C++

## Software Engineering

- Designed, deployed and maintained software systems both as part of a team and individually, including:
  - Designing, implementing and deploying a complete bandwidth management system (AirNet - ~ 400 ADSL users; Webshield - ~ 5-10 high speed ISPs)
  - Designing, implementing, deploying and long term maintenance of network disk imaging software (Mindvision)
  - Designing and implementing a system for ACL based security for web-based application (Megaw & Hogg)
  - Designing and implementing a generic framework for web-based report building (Megaw & Hogg).
- Developed various wrappers (libmng-py, schemepy, php-cdate) for C and C++ libraries to allow embedding inside other languages (include Python and PHP).
- Developed and documented protocol specifications (for example, Thousand Parsec protocol).
- Managed and coordinated a number of conflicting interests towards a common goal as leader of Thousand Parsec project.

## System Administration

- Designed, deployed and maintained email system for significant number of users (AirNet - ~4000 users; Glenunga - ~1000 users).
- Designed and deployed high availability web-server and database farm (AirNet).
- Setup and maintained a filtering proxy server (Glenunga).
- Developed and managed deployment strategies for both commercial and open source software on a large number of clients (Mindvision; Glenunga).
- Maintained a number of Linux based systems (both professionally and in-gratis).

## ***Hardware Engineering***

- Designed and prototyped a piece of consumer hardware with significant emphasis on cost.
- Implemented soft-cores in VHDL for Xilinx Spartan 3 FPGA.
- Programmed budget microprocessors in ASM (include PIC and 68000).
- Packaged a number of cross compiled programs to a number of embedded Linux systems.
- Worked with various cross compiling systems include Open Embedded, Build Root and ScratchBox.

## ***Project Management***

- Developed and implemented project plans include market analysis, risk assessment, timeline development and total cost of delivery evaluation. (AirNet; Honours Project)
- Contributed to the development of tender proposals, include implementation plans and cost analysis. (AirNet; Glenunga)
- Initiated and contributed to system performance and development review as a member of IT teams. (Megawhogg, Glenunga, AirNet)
- Diagnosed and resolved software and network problems interactively with diverse parties with differing needs. (AirNet, Glenunga)
- Provided data mining support to social science researchers. (Various volunteer work)
- Worked as a member of team in different industry environments, including taking on leadership and initiator roles (AirNet, Megawhogg, Mindvision, Glenunga)
- Contributed to and lead code review processes (Megawhogg, AirNet, Glenunga)
- Communicated effectively with a variety of client groups with differing technical knowledge to develop innovative solutions. (Volunteer work, AirNet, Mindvision)

## **Referees**

*Aidan Mountford*  
Director  
MindVision Interactive Pty Ltd  
48 Light Square,  
Adelaide 5000, AUSTRALIA

*Dr Matthew Sorell*  
Lecturer  
School of Electrical & Electronic Engineering  
The University of Adelaide  
South Australia 5005, AUSTRALIA