

Wesley Hosking

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EDUCATION ✧ **Melbourne University**, Melbourne, Australia.
B.Sc(Honours). in Computer Science, graduation: 1982.

✧ **University of South Australia.**
Graduate Diploma [G.Dip.Elec.Sys.Design.] in Electronic Engineering, 1987.

RESEARCH Image Processing, High Availability, Embedded Systems, Compiler techniques.

INTERESTS

EXTERNAL Hockey, Electronics, Software, Bushwalking.

INTERESTS

SKILLS

- ✧ C, C++, Modula-2, HTML, Various Assembler, Pascal
- ✧ PERL, sh, Tcl/Tk, awk
- ✧ Linux, SUNOS, IRIX, Solaris, Unix (System V, BSD, etc.), MS-DOS, MS-Windows.

REFEREES ✧ Manfred Kuhland - Atlantek Microsystems, (08) 8260 8990

✧ Stephen Fitzgerald - DSTO

✧ Paul Dunn - CSIRO, DMT, (03) 9662 7700

✧ Phil Nitsche - YourAmigo

WORK ✧ **Contractor** Sydac Engineering

EXPERIENCE Adelaide, 2002 - Present Day

- Developing a InfraRed Counter Measures simulation for DSTO in C++ and OpenGL.
- Unix Systems programming for supporting Train simulations on an SGI IRIX.

✧ **System Support Manager** YourAmigo Pty. Ltd.
Adelaide, 2001 - 2002

- Responsible for computer systems. web site, firewalls, VPN, communications and software development environment at YourAmigo.

- Establish Web Site and DMZ using Interchange for a YourAmigo *Shopfront* (Perl, Shell, HTML, Javascript).
 - Development of SparcLinux and Solaris versions of the YourAmigo Indexer (C and most of the GNU development suite).
 - Investigation of High Availability solutions for the YourAmigo Internet, include network and system redundancy.
- ◇ **Director of Software Engineering** Atlantek Microsystems P/L
Technology Park Adelaide, 1988 - 2000
- Responsible for all computer systems and software developments at Atlantek Microsystems P/L (includes in-house Linux/x86, Sun Ultra/Sparc, and PC's on Ethernet and Internet Routers and servers).
 - Development of drivers, applications for Image processing at Atlantek, including a number of image processing and networking based contracts.
 - Contracting with AWA Defence Industries, on a multiprocessor signal processing system (FTAAS) (1987-1990, 1992). Involved with development of Signal processing, Software Development tools, and User Interface in the system. Developed various modules of the system.
 - Contracting with British Aerospace Australia for Unix support for Sun sparcestations and MIPS-2000 machines with the LADS Ground Analysis sub-system, using Intranet for redundant, High Availability system. Development of tools to assist program development and debugging. (1990, 1991)
 - Contracting with Technology Development Corporation for support of their Sun and PC network. (including establishing Internet access for Technology Park Adelaide in 1991). Devices setup include Xylogics, CISCO routers and Sun based internet services. (1987-1994)
 - Contracting with DSTO Maritime Operations division for development of Display Object Generator and a real-time Data Acquisition system. This system included distributed processing capabilities (remote processing and file storage). I developed Display object generator language, parser and managed the implementation in the simulation that was being used (on Silicon Graphics machines). I developed the Real Time System for data acquisition from various acoustic devices. The data generated at close to limits for secondary storage (under VxWorks). (1992 - 1994).
 - Development of drivers and applications for APA images processing system for OS9 and Unix (SUNOS). (These systems are in use at a Number of locations in Australia - NSW RTA Safety Cam, Buderim Ginger Quality Assurance, and various customers of Datacube (Boston, MA, USA). (1989-1995)

- Contract with Telecom for system support and display systems setup (Jindalee Over The Horizon Radar). (Solaris, SunOS and Linux). Developed secure internet access system and involved with various development tasks. (1995-1996)
 - Development of driver and applications software for PPM-APA, for real-time image analysis (including porting of gcc to the TI C40 processor). (1996-1999) Using TI development tools and Linux based tools.
 - Development of Linux driver for Dipix XPG-1000, FPG-44 and PPM-APA image processing boards. Designed, and developed online revision control system for project. (1997-1999)
 - Design and Development of drivers, debugging tools, test systems, applications and demonstration systems for Atlantek's picprodigy FPGA based PCI processing board. (1999-2000). (Most development proceeding under Linux).
- ◇ **Computer Systems Manager** Vision Systems Ltd. (1986 - 1988)
- Responsible for system programming on VAX 11/750 running Unix BSD 4.2.
 - Software support for computers in the company.
 - Developed drivers for image processing system (Unix System V.2).
 - Designed and developed PROCOM system for Adpro security system (Xenix System V.2.2)
 - Designed and developed EVA testbed system for Adpro security system (DOS System)(Remote transmission of Alarm images).
- ◇ **Software Engineer**, Thorn EMI Electronics Australia,
- Helicopter Navigation system in Pascal and Assembler.
 - F/A-18A Software Engineer - responsible for software modules on deliverable system Assembler.
 - System programming (device drivers and support utilities for TEEA standard products. Assembler, and Pascal).
 - Analysis of SWSC Fire Control system Simulator (including successful tender response).
 - CAPC-EW Software Engineer - Command and processing system for Electronic Warfare.
 - Design and Implement test bed for operational army unit, using multiple Workstations on LAN based system.
 - CAPC-EW Project Manager TEEA. Responsible for management of project for TEEA personnel.

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- ◇ **Part Time Tutor - Melb. University Computer Science Dept.** (1981)
Portable C compiler retargeting for Interdata 3240 (Under Unix 4.1BSD).