

NICK WITHERS

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CITIZENSHIP  Australian

LANGUAGES  English: Native
 French: Fluent

INTRODUCTION I recently completed the *BE / BInfTech* academic program at [The ANU](#), with majors in *Telecommunication Systems* and *Electronic Systems*. I am particularly interested in applying myself to embedded and / or real-time systems, hardware design / FPGA-style programming and radio-frequency / wireless engineering. I gained experience in these fields during the completion of [my BE Honours Thesis](#), successfully implementing a pulsed Doppler-effect radar transceiver.

I have long held a keen interest in ICT and have several years' of professional experience in infrastructure roles. I also have extensive experience outside employment in infrastructure (including internet services and security) and software development.

EDUCATION [The Australian National University](#) Canberra, Australia
BE (Hons.) / BInfTech **2005 - 2009***

- Bachelor of Engineering major in *Telecommunication Systems*
- Bachelor of Engineering major in *Electronic Systems*
- Bachelor of Information Technology major in *Computer Systems*
- Completed all courses in the Bachelor of Engineering *Digital Systems* major

My BE Honours Thesis, entitled *A Pulsed Doppler-Effect Radar Wind Profiler Transceiver Using GNU Radio and the Universal Software Radio Peripheral*, documents the successful design of a radar wind profiler system primarily implemented at the FPGA level in Verilog. It is available at <http://www.nickwithers.com/usrp-wind-profiler/>, along with source code.

* Please note that I have not yet earned the Bachelor of Engineering degree: all academic requirements have been satisfied but I have not yet completed the required *Engineering Work Experience* component. This affords potential employers the opportunity to take me on in an internship capacity to evaluate the relationship prior to employment.

PROFESSIONAL EXPERIENCE [Centrelink](#) Canberra, Australia

Windows Server Design Architect **October 2003 - February 2005**

- Modified and maintained in-house developed automated software build systems

- Integrated applications and services on Windows 2000 Advanced Server and Windows Server 2003 machines and in Active Directory (AD) domains, including performing security analyses and implementing restrictive Group Policies
- Produced and reviewed technical and management documentation including project proposals, technical and high-level designs, security specifications and implementation documentation
- Provided design and architecture-level support for production, development and testing environments
- Provided technical and architectural guidance to management at a variety of levels, including senior executives
- Designed Centrelink's Windows Server 2003 Standard Operating Environment (SOE) build and AD implementation along with two colleagues

I acted as Centrelink's Windows Server Design Manager / Windows Server Senior Technical Adviser / Windows Server Team Leader on several occasions for periods extending up to a month at a time.

Workstation Design Architect

May 2003 - October 2003

- Part of the team that developed the corporate Windows XP Professional SOE and deployed the solution across roughly 27,000 client machines over roughly 450 geographically disparate sites, replacing the incumbent Windows NT 4.0 Workstation solution
- Produced and reviewed technical documentation
- Provided design and architecture-level support for production, development and testing environments

IT Support Centre Analyst / Team Leader

May 2002 - May 2003

- Provided end-user and office level technical assistance to Centrelink staff nation-wide
- Acting team leader on many occasions of a team of roughly 5 individuals, taking on team leader duties indefinitely towards the end of my tenure at the ITSC
- Trained and provided assistance to new arrivals
- Developed and documented anti-virus procedures for the ITSC

**OTHER
EXPERIENCE**

I have long held an interest in ICT. I have operated for some time several internet services, provided using software such as the *Apache* web server and the *Postfix* mail server. I also maintain a home LAN environment, with file and print services, DNS, DHCP, *Squid* web caching and so on. I have used *FreeBSD* as my primary operating environment in both server and desktop applications since 2004. FreeBSD also serves as my primary development environment. As such, I have a good understanding of UNIX-like systems from both a systems administration and application development perspective.

Security has always been an area of interest to me and is important in both my work with infrastructure design and with software development. I am experienced in securing Windows and UNIX-type installations and networks as well as with software security.

REFERENCES

Please contact me directly to arrange for references or academic documentation.