

# James Wilmot

Sydney NSW 2000

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## Education

**University of New South Wales**

Feb 2008–July 2011

Bachelor Science (Physics)

*Select coursework:* Extended Operating Systems

Advanced Operating Systems

## Employment

**This Little Duck**

Sept 2014–*present*

PHP & Drupal Developer

**The Scotney Group**

May–Sept 2014

.NET Developer

Squashed CSRF and XSS vulnerability in form submission

Greatly simplified logging so that similar errors are grouped in ticketing system

**SIRCA**

June–Dec 2013

Junior Linux System Administrator

Simplified auditing Jira project permissions with a Python script (utilising Jira RPC service and parsing the JSON output)

Deployed complex Atlassian Confluence production upgrade with minimal disruption (4.x to 6.x)

**NICTA**

Nov 2011–Feb 2013

Research Engineer

Shaved 50 cycles (from approximately 600 cycles) off Inter Process Communication in the seL4 microkernel using benchmarking, GCC extensions and careful code re-writing

## Contracts

### The Lab Dee Why

June 2014–*present*

Mentor

*The Lab* is a network of technology clubs for 10 to 16 year-old young people diagnosed with High Functioning Autism who enjoy working with computers.

### Conference Magic

Sept 2011–*present*

Audio Visual Technician

Organising and setting up audio/visual equipment for a major medical conference (Spring Seminar in Emergency Medicine.)

### Primary Ethics

Aug–Dec 2013

Contract Developer

Developed add-on to Volunteer Management Software (OrangeHRM) to aid Primary Ethics in its regulatory reporting requirements.

*Technologies:* PHP, Symfony, MySQL, Javascript, AJAX, JSON

## Volunteering

### Primary Ethics, *Volunteer Developer*, 2013

Maintenance and improvement of generated Jasper reports for managing volunteers.

*Technologies:* SQL, Jasper reports

### State Emergency Service

Member of Randwick Unit since March 2012.

*Qualifications:* Senior First Aid, Storm and Water Rescue, Maintaining Team Safety, General Rescue, Radio Operation, Introduction to AI-IMS, 4WD Operation

## Projects

### **Sydney Opera House, *Hack the House***

Developed, as part of a team, an iOS app to encourage tourist engagement with the Opera House while they are visiting. Part of a 24-hour 'hackathon'.

### **Operating System, 2011**

Operating System written on top of seL4 microkernel with virtual memory, a round robin scheduler, a file system, interrupts.

Part of Advanced Operating Systems course at UNSW.

### **Electronically Controlled College Room Access, 2010**

Designed and implemented system to enable electronically controlled access to my college room.

*Technologies:* C, Arduino, Linux, glib, swipe card reader, hardware interfacing

Last updated: November 18, 2014