JAMES BROADHEAD
Electronic and Computer Engineer

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I contribute to **Gentoo Linux** and my preferred language is **Python**, but I have experience with **C**, **Java** and **Erlang**. I am active in developing my skills, attending user-groups and keeping up to date watching conference presentations and trying out new tools and libraries.

Recent Activity:

Practising TDD for Django with unittest and selenium
Reading 'Expert Python Programming'
Updating the Fox toolkit in Gentoo, build-script fixes

Experience:

2011 –   **BSB Ireland**   *Software Developer*

2011-12   International Software Development team, developing Life Insurance / Financial software in Java.

Involved in bug-fixing, feature development and code review
Server-client model with object persistence.

Key Technologies: *Java, Spring, Maven, Jboss, Junit, Oracle, SQL, svn, hg*

2007 - 2010   **Telecommunications Research Group (Trinity College Dublin)**
Postgraduate Researcher

Developed Distributed Simulation Framework for Monte-Carlo Simulation and Statistical Analysis of Frequency Rendezvous using Python and C.

Profiling and Optimisation as project developed and research needs changed, replacing Python with with C modules and SciPy calls based on profiling with psyco

Project management / Bug Tracking / VCS - TRAC, Subversion

Attended International Conferences and Workshops, Involved in Peer Review of submitted papers

Taught First-Year Engineering class for Digital Design project

Key Technologies: *Python, C (PyObject), SciPy, Numpy, multiprocessing,*

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Experience (cont.):

2007 (4mo.) Cisco Systems   *Software Development Engineering Intern*

> Software Development Internship in San Jose with individual tasks and deadlines on two projects.
> Programming VOIP client in C++ using Windows API and MFC.

Key Technologies: *Visual C++, MFC, Windows API, C++test, SIP, Clearcase*

2006 (3mo.) Xilinx   *Customer Applications Engineering Intern*

> Debugging customer design issues using VHDL, Verilog, attending digital design courses, and design work.

> Experience dealing with remote team and customers over telephone, instant-message and remote-desktop

Key Technologies*: VHDL, Verilog, Circuitry-level Optimisation*

2005 – pres. Gentoo Linux   *User / Contributor*

> Active member of community; submitting bug reports, patches, and install scripts. I contribute to documentation and help in the user support channel.

> Maintain personal systems each with custom compiler optimisations and hand-configured kernels. Minor kernel patching.

> Build-system and System administration experience, debugging failed builds and failing applications with gdb, strace.

> Maintain minor forks of two projects with patches that have not yet been merged upstream.

Key Technologies: *gcc, gdb, strace, Bugzilla, Mercurial, python, bash*

Education:

2007   *Baccalaureus in Arte Ingeniaria* (B.A.I) Hons.
          Bachelor of Computer and Electronic Engineering
          Trinity College Dublin

2003   Leaving Certificate, St. Andrew's College, Co. Dublin
          A2 (85-90%) Maths, English, Music, French
          B2 (75-80%)   Irish,
          B3 (70-75%) Physics, Classical Studies.

Other Experience:
2002 - 2010 Reserve Defence Force: *Infantry Platoon Sergeant (Part-time)*
          Leadership/Training/Administration role for 30 soldiers.

Languages: English, French, Irish
Interests: Music; Grade 8 Oboe, Reading, Sailing, Skiing, Hiking, Reading.