#### JAMES BROADHEAD

Electronic and Computer Engineer

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+44 741 342 0400 (UTC)

I am interested in working on challenging problems in Software Engineering in the UK. I have experience working in industry, academia and open-source. I am efficient and motivated, and perform well in team environments. I contribute to **Gentoo Linux**, my preferred languages are **Python** and **C++**. I adapt well and am eager to learn new technologies and platforms.

#### Third Level Qualifications:

2007 Baccalaureus in Arte Ingeniaria (B.A.I) Hons.

Bachelor of Computer and Electronic Engineering

Trinity College Dublin

**Experience:** 

2011 - pres. BSB International Software Developer

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 (TCD)

*Postgraduate Researcher* 

Developed Distributed Simulation Framework for Monte-Carlo Simulation and Statistical Analysis of Frequency Rendezvous using Python and C library calls (PyObject).

Profiling and Optimisation of Simulator as project developed and research needs changed. Distributed processing, and employed multi-processing, Replaced Python API calls with C modules and SciPy calls based on profiling.

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.* 



## **JAMES BROADHEAD**

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 logic-design issues using VHDL, Verilog.

Attended digital design courses, minor original 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, VirtualBox

**Preferred Languages and Environments:** 

Python, C++, C, Erlang, Shell Scripting (bash) in Linux

**Secondary Education:** St. Andrew's College, Booterstown, Co. Dublin Leaving Certificate – All subjects at Higher Level (2003)

A2 – Maths, English, Music, French B2 – Irish

B3 - Physics, Classical Studies.

Highly Commended in Young Scientist Competition

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.