

Robin KAY

Curriculum Vitae

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Employment

2011-present Altera Europe Ltd
 Software Engineer, Advanced

 Working within a team developing high-level synthesis
 tools for programmable logic.

2007-2009 Imagination Technologies Ltd
 Graduate Design Engineer

 Worked within a team developing and maintaining drivers
 and firmware for video decompression silicon-IP. Worked
 with hardware and simulator teams to aid the design and
 implementation of new hardware features.

Education

2009-2010 M.Sc., Advanced Computer Science, with distinction.
 University of Birmingham

 Principle research project concerned the semi-automatic
 transformation of interpreters into just-in-time (JIT) com-
 pilers. Developed both an abstract model using Haskell
 and a practical implementation based on LLVM in C++.

2004-2007 B.Sc., Computer Science, 1st class.
 University of Hull

Open Source

- 2010-present *HsQML* – high-level Haskell bindings for Qt QML
Developed a library for interfacing Haskell programs with declarative user-interfaces authored using Nokia’s QML technology.
- 2005-2007 *fsrewrite* – command line utility
Developed a utility for Solaris which allows non-privileged users to run programs in an environment where file-system paths can be virtually remapped.
- 2001-2004 *xine* – open-source media player
Contributed hardware accelerated video scaling and colour space transformation support for several graphics cards used in Sun workstations. Made various other Solaris specific fixes and enhancements.

Skills

Embedded and System-level Programming

Commercial experience developing software for resource constrained embedded devices using both C and assembly languages, as well as experience of driving hardware on desktop platforms. Experience of working with SystemC based hardware models and C++.

Scripting and Tool Development

Commercial experience of developing small tools in C and Perl to perform task automation and data analysis. Also competent developing in Java and C#.

Functional Programming

Experience of using Haskell and its common extensions to develop small programs and libraries for personal and academic use. Some experience of Scheme.

Memberships

- 2010-present Professional Member of the Association for Computing Machinery
- 2007-present Associate Member of the British Computer Society (BCS)

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