

MATTHEW R. B. HARDY

Personal Details

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Education

University of Nottingham Computer Science & IT	1999–2004 PhD in Electronic Publishing/Document Engineering (passed pending minor revisions). 1996–1999 Degree: Upper Second B.Sc. (Hons) Computer Science.
Dixons City Technology College	1991–1996 A-Level: Maths (A), Physics (B), Chemistry (B), General Studies (C). AS-Level: Further Maths (C). GCSE: 9 Subjects including Maths, Science and English (literature and language).

Published Papers/Works

October 2003	<i>Comparison, Verification and Insertion of Logical Structure in XML and PDF</i> , Doctoral Thesis.
November 2003	<i>Creating Reusable Well-Structured PDF as a Sequence of Component Object Graphic (COG) Elements</i> , ACM Press (co-authored with S. R. Bagley and Prof. D. F. Brailsford).
November 2002	<i>Mapping and Displaying Structural Transformations between XML and PDF</i> , ACM Press (with Prof. D. F. Brailsford).

Skills

Programming	C/C++, Java, Haskell, Unix Shell, Perl.
API/Libraries	Windows (ATL, COM, MFC), Adobe Acrobat Plugins, MSXML, Xerces.
Programming Tools	Visual Studio (6, .NET & .NET 2003), GCC, CodeWarrior, JCreator, XML Spy.
XML Technologies	XSL (XPath, XSLT and XSLFO), Schema & DTD, DOM & SAX, InfoSet.
Web Technologies	(X)HTML, CSS (Level 1 & 2), PHP, CGI (Perl), Web Design.
Document Preparation	Latex, PDF, PostScript, Adobe Acrobat, MS Office, Various Unix Tools, Illustrator, Photoshop.
Operating Systems	Windows (XP/2000/NT4/9x), Linux, Solaris (Unix), Mac OS 9/X.
Other Computing	Networking, Databases, Graphics (including Graphics Related Mathematics).
Non-Computing Skills	Driving License (Clean).

Research

My Postgraduate Research at the University of Nottingham investigated the disparities between structured markup (e.g. XML) and layout-/appearance-based file formats (e.g. PDF). This required in-depth research into XML and its ability to convey logical structure. It also involved a complete understanding of the PDF file format and an ability to program plugins for the Adobe Acrobat Environment. The outcome of the research was the ability to insert and verify logical structure within PDF using XML template documents. Other projects have included PDF and XML creation and the conversion of XML to PDF through a number of intermediate scripted/programmed stages.

Work Experience

Consultancy 2003	Creation of a custom watermark plugin for the Electronics Data Systems Corporation (EDS).
Adobe Systems, Inc. Summer 2001 (3 Months)	Intern Engineer for Adobe Acrobat Engineering Group (San Jose). Programming Acrobat Plugins under the Adobe Acrobat Environment.
University of Nottingham 1999–2003	Demonstrating, marking and tutoring for programming modules (C++ and Java). Lecturing on advanced XML processing technologies (DOM/SAX/XSLT). Coursework composition and lab demonstrating for an XML module. Mathematics tutoring for first year undergraduates.
Emerald Group Publishing Limited Summer 1998	Support for a large networked environment, installing and configuring Windows NT4, as well as supporting a user base consisting of Windows NT4, 95 and 3.1 users.
Student Activities Resource Centre (SARC) 1996–2002	Linux Web Server Administration (100+ users). Web design for the University of Nottingham Student Union.

Achievements

International	Chosen to represent the UK at the Global Information Infrastructure (GII) Conference (1995), based in Japan — thesis was chosen as one of four UK winners.
School Prizes	During A-Levels and GCSEs, won a number of school prizes, including the Mathematics award twice, an Internet Development Prize and the award for Outstanding Achievement (given to one individual each year).

Personal Interests

Computing has been my main interest for a number of years. However, I have a number of interests and hobbies outside of the field of computing.

I play the piano and keyboard, and have attained a grade 6 (of 8) qualification. I have played in a number of concerts and was the 1995 soloist winner at the local Yamaha Music School.

I enjoy participating in a number of sports. These include tennis and hiking. Before coming to University I helped teach at my kickboxing club, having obtained a 1st Dan black belt. I also gave swimming lessons to children at a local school.

I am an avid reader, enjoying a wide range of genres. During my time at the University of Nottingham I have been a member of the Science Fiction Society, holding a number of positions in the committee (including President and Vice-President).