

Antony Pace

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Profile

Software Engineer with 21 years experience in low level software combined with fundamental knowledge of electronics. Experienced in C++, OO, Java and assembler programming. Successfully designed and implemented many programs and systems running today in high speed, precision environments. Project management skills. Fluent in German.

Personal Details

Date of Birth	16th August 1962	Health	Excellent
Status	Married with three children	Driving Licence	Full/Clean

Career Summary

Jan 03 - present	<u>BSS Audio / Soundcraft Ltd / Harman</u>	Team Leader/ Senior Software Engineer
Sep 98 - Jan 03	<u>Absolute Code Ltd</u> Own contracting company	Software Engineer
Dec 88 - Sep 98	<u>Alphasem AG, Switzerland</u> Semiconductor Equipment Manufacturer	Software Engineer, Deputy Manager
Jun 86 - Dec 88	<u>Picker International</u> Diagnostic Medical Equipment	Graduate Electronic Engineer
Oct 82 - Jun 86	<u>City University / NELP, London</u>	BSc Electronic Engineering
Sep 78 - Oct 82	<u>GEC Medical</u> X-Ray and Ultrasonic Medical Equipment	Electronic Engineering Apprenticeship

Qualifications, Experience and Interests

Qualifications BSc Electrical and Electronic Engineering
TEC level 4. 'O' Levels incl. Maths (A), English (B), Physics (B)

Experience C/C++: Embedded C++, STL, Boost, gcc, Visual Studio.net, MFC, and UML, Windows, Linux.
Java: JDK, Jbuilder and J++, low level JVM.
Assembler: 68332, 68HC11, Z80 and 8051 families.
Other Perforce, VSS, HTML, PHP5, Agile, Rally.

Interests St Albans Round Table, Skiing, Sailing, Reading, experimental web sites including welhamgreen.com

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Career History

Soundcraft (Harman), Herts, UK

Professional Audio Mixing Desks

Jan 09 – present

Senior Software Engineer for new range of live audio mixing desks called Si Compact. The first in the range was launched Sep. 2010 and quickly followed by 2 other versions. The desks already have a reputation for reliability and sales are better than forecast. Si Compact uses a NIOS embedded processor on Altera FPGA and Analog Devices Sharc DSP. System developed completely in C++ using gcc, UML, STL, Boost and MicroC/OS-II.

My personal contributions were to interface to all the hardware, create a posix-like interface to the OS, write a boost::asio clone and design/implement the dynamic graphics. I introduced the team to Boost libraries and hold regular training sessions. I wrote and maintain the coding standards and release procedures.

BSS Audio (Harman), Herts, UK

Professional Audio Signal Processing

Jan 03 – Jan 09

Team leader (6 engineers) and software engineer for new range of professional networked audio DSP products, called Soundweb London. I started in Jan 03 and successfully released London in September 2004. London was very well received and on track to be a big success. Soundweb London uses Motorola Coldfire and Analog Devices Sharc DSP. System developed completely in C++ using Artisan UML, STL, Metrowerks compiler and Nucleus OS.

Absolute Code Ltd, Herts, UK

Own contracting company.

Sept 98 – Jan 03

Bio-Rad, Hemel Hempstead

Oct 01 – Jan 02

Developed MSVC C++ interface to CAN bus node to control focus of a confocal microscope during an automatic image acquisition. Programmed application code in Visual Basic using Active X / COM interface to drive new focus controls. All work compiled using Visual Studio 6, archived in VSS and documented in HTML.

TCTi, Harefield

Jun 01 – Sept 01

Developed database software for 3D imaging product, using DDX and ODBC connection to Access database. Produced regression test harnesses for software. Analysed, debugged and fixed code from database structure level, through library and application level, to Windows dialog layout. Assisted in design of installation program, improving database section. Worked exclusively in Visual C++ using MFC, standard template library and Visual Source Safe.

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The Technology Partnership PLC, Royston

Mar 01 – Jun 01

Integrated a third party Java Virtual Machine into Set Top Box software to allow hotel guests to access the Internet. Code written in C and C++. Increased download speed and usability of remote keyboard. Developed test program in Java. Rewrote driver to IBM chip and remote control devices.

RVSI Vanguard / Electronics, Arizona / New York

Jan 99 - Dec 00

Designed and implemented software for modular card rack system. Written entirely in OO C++, for configurable cards. Software consisted of an interrupt driven OS, RS485 and RS232 based comms, digital I/O, SMEMA interface, stepper motor controller and interface to PCI card.

Tested and debugged in the UK and presented in Arizona.

Alphasem AG, Switzerland

Sept 98 – Jan 99, Dec 00 – Mar 01

Produced enhancements to existing software. Created new software module to pick and place. Liaised with Swiss engineers to test and release. Examined State Space servo motor control software and produced test report, quality analysis and bug list.

Alphasem AG, Switzerland

Semiconductor Die Bonder and Sorter Equipment
Manufacturer.

Dec 88 - Sept 98

Designed and implemented embedded software for servo, stepper, Intelligent parallel I/O, image processing on Cognex IPS and system level software for IRMX for Windows.

Designed and implemented Windows debug and test programs written in Visual C++ using MFC. Implemented a test program suite in Visual Basic.

Created and maintained C/C++ company standards.

Supervised 7 software engineers as Deputy Manager of Software department.

Studied and became fluent in German, worked in German environment.

Selected to be key member of team designing totally new die bonder.

Picker International, North Wembley

Diagnostic Medical Equipment Manufacturer.

June 86 - Dec 88

After graduating, single handedly designed and implemented software for Mammography X-Ray machine. Hardware linked by fibre optic between tube and control panel. All code in PLM/51 and assembler for 8051.

Maintained existing software for mobile X-Ray machine.

GEC Medical Equipment, North Wembley

X-Ray and Ultrasonic Medical Equipment Manufacturer.

Sept 78 - Oct 82

Successfully completed 4 year electronic engineering apprenticeship.

Spent 1 year training at EITB centre learning general engineering skills.