Andrew D. McCormick

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Date of Birth: 1st March 1969 Nationality: British Citizen

I am a software engineer with experience in GUI and embedded system design, with considerable customer support experience in the office and in the field. I also have a wide-ranging background experience of hardware design in RF and telecoms. I am keen to diversify into new areas should the opportunity arise. I am good at adapting to new environments, and enjoy working in a team. I am also looking for greater responsibilities long-term.

KEY SKILLS

- **Software Design and Development using C, C++, Visual BASIC, Pascal and Fortran.**
- **Web design and authoring (HTML 2 and FLASH) using MS Front Page, Hot Dog, Macromedia FLASH MX**
- **Processors: ARM7, PowerPC, Motorola 8-bit CPU's, Intel x86 family.**
- **GUI / IDE: Visual Studio .NET, Visual Basic, Visual C++, Tornado, Code Warrior, HP-VEE, LabVIEW .**
- **Operating Systems: Windows XP, 2000, ME, 98, NT, 95.**
- **RTOS: Nucleus+, VxWorks, some familiarity with other RTOSes.**
- **Systems/Standards: Digital TV (DVB-T, DVB-C, Common Interface, POD), PC Card, Smart Card.**
- **Knowledge of TQM and 6-sigma Quality Standards in design, CE requirements for Safety/EMC Auditor for ISO 9000.**

WORK EXPERIENCE

JAN 99 - Present: Sony Semiconductor Europe, Jays Close, Basingstoke, Hants. RG22 4SB
Embedded software drivers in C for ARM7/PowerPC, GUI applications in Visual Basic/Visual C++, customer support.

NOV 96 - NOV 98: Opt-Tel Systems Management Ltd, 49 Station Road, Gerrards Cross, Bucks. SL9 8ES
Embedded software applications in C for AMD 186 platforms, plus some hardware design, CE approvals, and customer support.

DEC 95 - OCT 96: Quantel Ltd, Turnpike Road, Newbury, Berks. RG14 2NX
Developed applications for video graphics systems, written in Pascal for Motorola 68000-based systems.

OCT 91 - DEC 95: Racal Comms Systems Ltd, Western Road, Bracknell, Berks. RG12 1RN
Real-time embedded C software (plus some assembler) for Motorola 8-bit CPU's. Test software using LabVIEW.
Digital hardware design, hardware/software integration.

More details on Work Experience are on the next page.

EDUCATION

Loughborough University (1991):
BSc (Hons) Electronic/ Electrical Engineering (lower 2nd Class) + Diploma Industrial Studies for placement July 89 - Sept 90.

Queen Mary's College, Basingstoke (1987):
A levels: Maths (B), Physics (B), Electronics (A), Chemistry (A).

Cranbourne School, Basingstoke (1985):
O Levels: 10 Passes, incl. English Lit+Lan, French and German.

ADDITIONAL INFORMATION

Councillor with Basingstoke and Deane Borough Council. School governor on two schools. Involved with numerous other local bodies and partnerships, e.g. Road Safety Council, Milestones Museum Joint Management Committee, residents action groups, etc. Webmaster for various sites representing community groups, e.g RoSPA Advanced Driving Association Thames Valley Group. I have a clean driving licence and have passed the RoSPA Advanced Driving Test (Grade: Gold). For the past 4 years I have run the London Marathon, raising over £4000 for Spinal Research. At University I was Hall Rag Chair and helped to run Lufbrag, the UK's No 2 student rag. Other interests: Indian, Thai, Chinese and Italian cuisine, skiing, scuba diving and hill walking.

WORK EXPERIENCE

JAN 99 - PRESENT: Senior Software Engineer, Sony SES, Jays Close, Basingstoke, Hants. RG22 4SB

Writing embedded C drivers running on an ARM7/ PowerPC to control various digital TV IC's designed in-house e.g. COFDM digital terrestrial TV demodulator, QPSK digital satellite front end, PC Card Common Interface, Smart Card interface.

RTOS used: Nucleus+ and VxWorks, API via RTOS abstraction layer.

Tools used: CodeWright, Visual Source Safe/Star Team, Opus Make, Tornado, Wind River Sniff+ and Setup SDK.

Test/Measurement software using HP-VEE and PC DLL's (Visual C++) to control a COFDM demodulator IC during RF testing.

Writing over 20 GUI programs/DLLs in Visual Studio .NET, Visual Basic 4.0, 6.0, /Visual C++ 6.0 and Borland Turbo C++ supporting set-top box IC's on evaluation boards for distribution to customers. With numerous concurrent project responsibilities, taking on and supervising contractors during busy periods.

Preparation of CD-ROM and web distribution media using InstallShield and Setup Factory..

Customer support: documentation, site visits, telephone and e-mail support, working with the Marketing dept.

Since May 2002 I have also been a Borough Councillor for Basingstoke and Deane Borough Council.

NOV 96 - NOV 98: Software Engineer, Opt-Tel Ltd, 49 Station Rd, Gerrards X, Bucks. SL9 8ES.

Writing embedded C applications running on an AMD186ES processor for Least Cost Routing devices and PABX remote management units.

Also took over the hardware design of on product and was responsible for getting CE approval (EMC/safety EN 60 950) and telecoms approvals (CTR 21).

Customer support for a PC-based programming system for domestic LCR's. Telephone support, site visits, system commissioning, installation and maintenance, troubleshooting, debug and test, proposing design modifications, working with Marketing dept.

Working with Manufacturing dept. on manufacturability issues

DEC 95 - OCT 96: Development Engineer, Quantel Ltd, Newbury, Berks. RG14 2NX.

Various projects written in Oregon Pascal for Motorola 68040-based embedded systems

Supporting in-house graphical user interface for applications such as foreign language menu conversion using dictionary files, built-in user macro test facilities for TV/film effects boxes using pixel checksums, post production tape archiving, etc..

OCT 91 - DEC 95: Senior Engineer, Racal Comms Systems Ltd, Bracknell, Berks. RG12 1RN.

ANSI C for embedded applications using Motorola 8-bit CPU's.

Safety-critical applications e.g battery management system (NiCd, NiMH, Li Ion). Evaluating cell technologies, gathering bench data, drawing up charge regimes for maximum usage life and safety. A product safety plan was devised which specified the safe operating conditions for battery packs, extensive software testing, plus the use of hardware safety backups.

RF measurement and test: wrote over 50 test programs in LabVIEW for GPIB (IEEE-488) instrumentation control.
Formal testing of design prototypes against various standards (EIA RS 152C/204C, CEPT 24/01, ETSI ETS 300086).

Digital hardware design/ bench prototyping of various circuits e.g. air interface sync word correlators, using CMOS logic driven from a PC using software written in Borland C++.