

James McGarvey

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Product Architect and Hardware/Software Engineer with more than 30 years product development experience - 24 years in all areas of digital camera technology. Natural technical team leader. Excellent communicator, instructor, and mentor. Passion for customer delight! Vision for whole-product elegance and expertise in details. Proven ability to balance and simplify product architecture and achieve maximum cost-effectiveness. Exceptional productivity, analysis and problem solving skills.

Please see my complete web resume and portfolio at resume.jemcgarvey.com.

Experience

Eastman Kodak Company, Consumer Digital Imaging Group, 2005-present

Principal Engineer, Camera Advanced Development. Developed advanced user interface engine in C++ for Kodak consumer digital cameras. Developed camera firmware platform for Linux/Android mobile phones.

Eastman Kodak Company, Digital & Film Imaging Systems, 2004-2005

Principal Engineer, Patents and Standards. Provided technical consulting, patent validity analysis, and prior art search supporting patent licensing program and patent litigation.

Eastman Kodak Company, Kodak Professional Division, 1990-2004

Senior Project Engineer. Developed system architecture of 6 generations of industry leading Kodak Professional DCS digital cameras. Designed, coded, debugged and maintained embedded firmware platform of over 100,000 lines of C code. Designed digital and analog electronics, including microprocessor system, interfaces, power supplies and imager control. Resolved system problems. Educated and resolved issues for customers, service, manufacturing, marketing and QA.

Eastman Kodak Company, Federal Systems Division, 1980-1990

Project Engineer. Designed world's first DSLR digital cameras. Developed multiprocessor control system for high speed random access contact printer for reconnaissance imagery.

Expertise

Languages - C/C++, C#, Visual Basic, HTML, CSS, PHP, Javascript, Java, Assembler

Operating Systems - Windows, Linux, Android, ultron, uC/OS, pSOS, MSDOS

Processors - VideoCore, OMAP, DM3xx, C64x, MPC82x, ARM, PowerPC, x86, 80196, i960, Z80

Interfaces - PCMCIA, CF, SD, MMC, USB, Firewire, SCSI, I2C, SPI, RS232, NTSC, PAL, ATA, NMEA

Hardware - CCD/CMOS Imagers, FLASH, PLDs, LCDs, Batteries/Power Management

Formats - XML, SVG, TIF, JPEG, PCX, WAV, IPTC, CVF, SVF, COFF, ELF, FAT, DCF, DPOF

Firmware - RTOS design, debugger, diagnostics, script interpreter, GUI, localization

Education and Recognition

BS Computer Science / Systems Analysis / Business, Taylor University, 1980

11 US Patents for digital camera inventions

2001 Eastman Innovation Award

2012 Rochester Intellectual Property Law Association Distinguished Inventor of the Year