

# Peter L. Skeggs

## Professional Objective

My goal is to utilize my experience in the embedded systems, consumer and hobby robotics, EDA, and data storage industries to develop leading edge solutions to difficult problems, be they in hardware, software, or firmware.

## Career Highlights

- *Sensor Hub IC Project Manager and Firmware Team Manager*; EM Micro, 2013-
- *Firmware for Sensing Research* (Bluetooth Smart, gyro/accel/compass/barometer); Intel Labs, 2012-2013
- *Electric Power Monitor* (Microchip PIC24F; WiFi, Ethernet, TCP/IP; firmware); Verlitics/HCZ 2012
- *BikeTrak Prototype* (TI MSP430 firmware; 2g cellular data + GPS + accel); BikeTrak, 2011-2012
- *RFID Tag Sorting Machine* (mechatronics design and fab; PHP/MySQL web backend); OregonRFID, 2010-
- *Robot Dinosaur Development* (key player on engineering team of Pleo, reached market in 2007; firmware, hardware, systems design, production issues, key sensor algorithms); Ugobe, 2006-2009
- *Electronic Toy Prototype "Laffy Laffalot"* (all firmware and hardware prototyping); Pulse Global, 2009-2010
- *Optical Sensor IC Software Simulator* (Visual C++; modeled prior to first silicon); EM Micro, 2001-2009
- *Nubotics Robotics Products* (design, manufacturing, sales of 7 different robot products; Noetic Design, 2004-
- *RoBOT Remote Ticket Printer Client/Server App* (SOAP + Windows service); Box Office Tickets, 2003-2004
- *ePortfolio Electronic Student Portfolio System* (Java; Struts; JSP; PostgreSQL); Opal School 2003-
- *Tape Archive Data Recovery Tools* (many hardware interfaces, tape formats, error correction, decompression; Windows NT drivers; Visual C++); Computer Conversions, 1996-2003
- *RAVE SoC Prototyper Software* (drivers; test software; Java JNI interfaces; demos); Simutech, 1998-2001
- *Tape Drive Systems Analysis and Studies* for MountainGate and Iomega/Philips, 1996-1997
- *High Level Tape Drive Firmware* (DDS-2, DDS-1 for Aiwa/Iomega; QIC-525 for Cipher); 1989-1994
- *High Level Optical Drive Firmware* (525WC and 525GB drives); ISI / Literal Corp., 1985-1989
- *Optical Drive File System Software and Drivers* (WORM-TOS); ISI / Literal Corp., 1987

## Skills

- **Web:** Java Server Pages, Java Applets, JavaScript, Torque, Struts; HTML, CSS, MySQL, Ajax, PHP
- **Software:** C/C++, asm, Python, Java; Visual C++ / MFC and wxWidgets C++ GUIs; Windows, Linux; beginning Mac OS X, iPhone, and Android; eCos, FreeRTOS, AvrX RTOSs; InstallShield, NullSoft NIS
- **Firmware:** 8051, 68HC11, 8085, 80188, ARM 7, ARM Cortex M3, Atmel AVR, Microchip PIC, SiLabs; multithreading, interrupt handling, closed-loop control, sensor processing; TCP/IP; USB; SD card; FreeRTOS
- **Hardware:** SCSI, ATAPI, Floppy; JTAG, I2C, RS-232, SPI; LF RFID, Bluetooth and Zigbee; analog and digital design and system level specification; schematic capture, PCB layout, PCB fabrication, assembly, and testing; oscilloscopes, logic analyzers, emulators/debuggers; motor control; 3D CAD design
- **Sys Admin:** Linux system administration, including firewall rule design, email servers (Qmail, Postfix), VPN setup, virus scanners, spam scanners, email list servers, and web servers

## Education

- BSCS and BSEE, Washington University in St. Louis, 1986

## Contact

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