

# Nathan Laredo

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## Experience

14 years x86 assembly coding and debugging including reverse engineering  
14 years low-level PC platform programming (8251, 8254, 8255, 8259A, 146818, 16550)  
13 years X Window System application development (Xlib, Xt, Xaw, Xv)  
13 years programming using the FSF toolchain (gcc, gas, make, awk, sed, cvs)  
13 years PostScript language programming  
12 years Linux kernel development, including video capture and MPEG-2 playback drivers  
12 years network client and server application development including C implementations of FTP, HTTP, SMTP, IRC, POP3, IMAP, and SSH  
10 years digital audio signal analysis and codec development  
6 years MPEG-2 and DVD full software codec development (reverse engineered)  
5 years analog and digital video expertise including NTSC, ATSC A/53 (HDTV)  
3 years XFree86 graphics and input device driver development  
3 years Win32 application and NT/2K/XP device driver programming in C  
4 years USAF Surgical Services Specialist

## Employment History

1999- **Member of Technical Staff, Transmeta, Santa Clara, California**  
Developed Linux and Windows drivers and applications  
Developed an internal reference Linux software DVD player  
Optimized third party DVD players for the Crusoe platform  
Developed an internal Transmeta BIOS for Crusoe and Effic on  
Reverse engineered hardware and software through PCI bus traces and ICE  
Developed Transmeta Virtual Machine technology (vmware-like) for Effic on

1999 **Senior Linux Developer, Stradis, Atlanta, Georgia**  
Developed a hardware MPEG-2 decoder driver

1996-1999 **System Administrator, Weststar Title Company, Dallas, Texas**  
Maintained a hybrid Windows NT and Linux network under contract

1995-1999 **Surgical Services Specialist, United States Air Force**  
Wilford Hall Medical Center, Lackland AFB, Texas

1993-1994 **Technical Support Representative, Murata/Muratec, Plano, Texas**  
Provided toll-free fax machine technical support (in French and English)

1991-1993 **Programmer/Analyst II, Dept. of Earth and Atmospheric Sciences**  
Georgia Institute of Technology, Atlanta, Georgia  
Developed X11-based atmospheric data analysis tools

## Personal Projects

MPEG-2/DVD player, Linux MIDI player (PlayMIDI), audio oscilloscope with FFT, digital audio and video effects tools for Linux, DVD database author, prolific DSLR photographer, Linux Kernel Archives (kernel.org) maintainer (server configuration, web pages, etc.)

## Patents

Co-Inventor: One patent in the area of virtual machines (filed 9/2003)  
Unable to disclose details during review

## Education

1991-1993 **Georgia Institute of Technology, Atlanta, Georgia**  
Studied both Computer Science and Electrical Engineering

## Foreign Languages

**French** 8 years study, 1 year work-related use  
**Japanese** 2 years study, very limited kanji