

John Nolting
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Education

Stanford University

Master of Arts in Music, Science and Technology
Center for Computer Research in Music and Acoustics
GPA: 3.93/4.0

Stanford University

Stanford Graduate School of Business Summer Institute for Entrepreneurship

Southern Illinois University at Carbondale

Bachelor of Science in Electrical Engineering
Specialization in Electronics Engineering
Minor in Mathematics

Employment History

Leadis Technology, Inc., Sunnyvale, California
(Applications Engineer, July 2007 – Present)

Worked in the Audio Business Unit with two other Applications Engineers and several Senior Design Engineers in an integrated circuit design startup environment.

- Responsible for generating all I²C control scripts and designing all I²C graphical user interfaces. Wrote control scripts in C code using MPLAB, and xml code for Total Phase Aardvark adapter. Designed GUI's in LabView 7.1. Details at www.Leadis.com
- Responsible for RF testing and documentation. Some tasks included FCC testing at local RF test house, determining modulation index and transmit levels using a spectrum analyzer, and debugging chip with RF Design Engineer. Wrote application notes on FCC regulations and how to pass them, and basic RF antenna design.
- Wrote data sheet sections including advanced modes of I²S communication and Automatic Gain Control. Thoroughly tested chips and worked with design engineers to complete these sections.
- Responsible for thorough characterization of chips. Some tests included SNR, THD+N, Channel Separation, PLL operation, Power Consumption, FM performance, and Codec performance. Primarily used Prism Sound dScope Series III Digital Audio Analyzer.

Audio 8 Recordings, Inc., Chicago, Illinois and San Francisco, California
(partner, since 2001; artist, since 1999)

Worked closely with seven other partners to develop company structure, profile, and goals. Independently created and developed new technologies for the scratch dj market. Took releases from home studio to international distribution.

- Realized, designed, programmed, built, debugged, packaged, and marketed Flesh MIDI scratch mixer modification. Software written in C Language using Cygnal IDE and Config for 8051 microcontrollers. Hardware included a low voltage regulated power supply, Cygnal chip, MIDI output circuit, and ESD protection. Designed in PowerLogic, and routed using PowerPCB. Patent application drafted and submitted.
Details at www.audio8.com/releases/A8MIDIV1
- Realized, designed, provided manufacturers, packaged, and marketed customized scratch mixer faceplates. Designed using AutoCAD 2002. Employed two distinguished graffiti artists to provide artwork. First customized scratch mixer faceplate of its kind.
Details at www.audio8.com/releases/A8MARS1
- Worked with several artists to create and release several audio albums on vinyl, CD and MP3. Mastered and developed compositions using Sound Forge 6.0, Reason 2.5, Fruity Loops 3.4, Cubase SX, and Ableton Live 4.0.
Details at www.audio8.com/artists/fleshone.html

(**October - February 2004/2005**, travel to Shanghai, China for support of family matters. Studied DSP literature and basic oral Mandarin language with Chinese tutor

BBI Engineering, Inc., San Francisco, California
(Electrical Engineer / Production Manager, August 2000 - April 2006)

Worked closely with three senior electrical engineers to complete projects in a wide range of audio/video technologies.

- Mechanical design using AutoCAD, production management, test, debug, and repair of Dan Dugan Model D-2 and D-3 automatic mixers. Responsible for frequency response, THD+N, and SNR testing using Audio Precision Two Cascade Plus. Advanced PCB level troubleshooting of DSP based circuits for test and repair. Constant client and user support.
Details at www.bbnet.com/engineering
- Engineering support for design and implementation of audio/video systems for numerous museums and corporate offices. Responsible for advanced show control programming in a C based language for complex audio/video systems. On-site build, program, test, and technical support for clients all over the nation. Programmed, wired, and tested any unique technologies needed for system implementation.

- Responsible for prototyping of circuit designs. Advanced surface mount hand soldering for prototyping. Tested each stage of circuit design during prototype build process. Designed and built unique test equipment for more efficient testing.
- Managed manufacturing and repair of all company designed electronic products.

Skidmore, Owings & Merrill LLP, Chicago, Illinois
(Electrical Engineering Intern, Summer 1999)

Designed and drafted power distribution systems. Hand drafted electrical conduit, distribution boxes, outlets and light switches. Performed power calculations to estimate power consumption, calculated wire sizes, and calculated conduit lengths using Microsoft Excel spreadsheets.

Bridgewater Custom Sound, South Holland, Illinois
(Sound Engineer / Equipment Manager, Summers of 1997, 1998)

Organized equipment and tested audio systems for rental department.
