François Ernoult R&D engineer (audio hardware)

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37 years old (mobile)	Objective
	As an R&D hardware engineer specialized in audio technologies, I'm looking for opportunities to open my career to new and challenging horizons.
	Professional Experience
Since September 2011	Trinnov – Manufacturer active acoustic correction processors (Paris, FR)
	Trinnov was and still is a small but fast growing company. Within the R&D team, I am the hardware specialist. My experience gave a boost to hardware design quality and speed of development. We now launch 2 or 3 new processors a year. expansion gualitative and quantitative jump
	program within Trinnov and is now able to manage a project from the idea to the production.
2008 - 2011	Innovason – Manufacturer of digital live mixing desks (Plougoumelen, FR)
	Within the R&D team, I'm in charge of the hardware development from the solution research to the start
	Development of new boards and enhancement of existing ones
	PC and embedded operating system integration
	 Integration of external developments (hardware and software)
	Although my preferred skills are focused on pure electronic design, my general engineering knowledge and my ability to learn about new subjects help me to succeed in doing more complex and interdisciplinary projects.
	My position is at the cross-point of the other professions inside the R&D team. This allows me to put forward simple and reliable solutions across different disciplines.
April 2005	Creation of Pro Audio System Design SARL
	 The activity is separated in two poles: Design, production, and selling of audio devices. Realization of audio electronics projects as an independent engineer.
	As the only actor, I'm in charge of technical roles but also commercial and communication ones.
During vacant periods	Development of my own product line
and full time since February 2004	The first product is a preamp/equalizer for musical instruments. It has been designed as a high quality preamplifier for bass guitars, but it as shown good results different in acoustic instruments. I also designed a few different Microphone Preamplifiers.
	Innovason - Manufacturer of digital live mixing desks (Plougoumolon, EP)
Many projects between July 2002 and January 2004	Fixed term contract (as an R&D engineer)
	Test and industrialization of an 8 microphone preamplifiers board with digital conversion. Iterative procedure: modifications / tests.
	Studies and prototyping of a silent embedded PC.
	with the mechanics engineer team.
	First implantation of an EtherSound (DIGIGRAM) module in the console. This project was a first step to the integration of Ethersound as the main transmission protocol in the console.
	EtherSound is an audio network based on Ethernet and caries 64 channels in each direction.
Mars / October 2001 (6 moths)	PUBLISON – Manufacturer of studio digital audio devices (Paris, FR)
	End of studies period (as a DSP engineer) Development on an editing station (up to 48 tracks with DSP) : Optimization of the DSP firmware to maximize performances and allow more simultaneous effects and editing functions.
	Development on a digital mixing desk (up to 128 inputs with 60 DSP) : Optimization of input processes calculation and of the transfer to the mixing unit.

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July / September 2000 (3 months)	Trace Eliot – Manufacturer of bass and guitar amplifiers (Maldon, UK) Training period (as a service engineer) My first experience in a medium sized company in the musical instrument industry.
August / September 1999 (6 weeks)	C.M.R.R.F. Kerpape – Readaptation centre for disabled people (<i>Ploemeur, FR</i>) Training Period (development of readaptation tools) It was a very rich experience mainly on the Human point of view, but also on a technical plan: we are looking for the simplicity and the answer to the need of autonomy of the patients.
July 1998 (1 month) October 1997 (1 week)	Valves House Music – Guitar amplifier repair shop (Paris, FR) Training Period (repair of bass, guitar, and sound reinforcement amplifiers). First time working in the audio field.
June / July 1997 (7 weeks)	Société Générale – French Bank (Londres, UK) Training Period (use financing software tools)
July 1996 (1 month)	Crédit Immobilier Général, Société Générale – French Bank (Paris, FR) Summer Job.
	Studies
1996 - 2001	E.S.M.E. Sudria – Engineering Five Years Undergraduate Program (Paris. FR)
2000 - 2001	Signal processing and electronics specialization (DSP, modeling) End of studies project: Study of the acoustic radiant of a plate in transient mode by spatiotemporal imaging methods. (CNAM)
1998 - 2000 1996 - 1998	First and second years of the engineer cycle (general studies) Mathématiques supérieures/spéciales (integrated preparation classes to competitive examination)
1996	Baccalauréat Scientifique (S) (Equivalent to the A level of science)
	Personal realizations
Mai / August 2003	Sound assistant on a short movie – <i>Love Song</i> of Gwenn and Philipe Pacote Perchman during filming. Sound engineer assistant during the sound editing and mixing.
Before 1996	Modification et prototyping of valves guitar amplifiers
	Languages
	English (fluent) Fluent use in a professional context Many training periods and journeys in England during my studies
	French (native)
	Computer skills
	Operating Systems Windows, Windows Embedded (development), Linux (development, system optimization, administration), VMS (as a user)
	Programming languages VHDL, C, Assemby (Pic, Cypress, x86, DSP,), Visual Basic, VBscript, HTML, PHP, MySQL, Fortran

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Software

Altium, Eagle, OrCad, GEDA (CAD Printed circuit boards) Spice 3, XSpice (analog circuit simulator) Ardour (DAW for Linux and MacOS)

Processors

DSP Sharc (Analog Devices) and TMS320 (Texas Instrument); µControllers (Microchip, Cypress, 8080)

Other skills

Driving license for cars

Music (guitar, sound engineer) Sport (Horse riding, roller, surf)