Christophe BASSO
95, route de Leguevin
31820 PIBRAC FRANCE
e-mail: CBASSO@WANADOO.FR
Tél. : 33 (0)5 61 07 68 45
34 years old
Nationality: French
Military duty accomplished in the Navy
Married, two children

EDUCATION

1985	Two years undergraduate at the Montpellier University (FR). "Diplome Universitaire de Technologie" (DUT) U.S. BSEE equivalent
1982	Baccalauréat F2, electronics, Perpignan

PROFESSIONAL COURSES

1998	Project leader course (ELMP), 2 days, **MOTOROLA University**
1996	UNIX course, **C.N.A.M.** de Grenoble, 4 days
1996	Modern Switching Converter Design, 5 days in Portsmouth (UK), **E/J BLOOMS**
1996	Power Conversion, 1 day, **UNITRODE**
1994	Electromagnetic Compatibility, 5 days, **AEMC Mesure**
1992	The UNIX system, 5 days, **Hewlett-Packard**
1990	Data acquisition and IEEE-488, 5 days, **National-Instruments**
1986	Engineer and customer relationships, 2 days, **Rank-Xerox**

EXPERIENCE

August 99 **ON Semiconductor**
Application Engineer for the Power Management chain in offline power conversion featuring low standby power.

June 1997 - August 99
Application Engineer for **MOTOROLA** S.P.S, Toulouse, France
Semiconductor **C**omponent **G**roup, Wireless Subscribers
- Specs definition and preliminary data-sheet elaboration for the introduction of new power management products tailored to the wireless market:
  - DC/DC converters (baseband power supply)
  - Low DropOut regulators (baseband and radio section)
  - Offline battery chargers (PWM controller and charge terminaison)
  - Li-Ion battery protection ICs (over-charge and short-circuit)
  - RF amplifier modulating section (drain modulation)
- Father of the MC33170, GSM RF power amplifier modulator
- "Diamond Quill" award obtained in less than two years from MOTOROLA for exceptional contribution to products promotion: 25 articles published in 24 months
- Use of CAO tools, elaboration of SPICE models for product promotion
- Setting of customer seminars (OEM et distribution)

January 1989 - May 1997
In charge of development, Beam Diagnostics Department
European Synchrotron Radiation Facility, Grenoble
- Electronic Study of the of the Beam Position Monitor project : writing of test programs, quality, calibration, in C and Pascal
- Drive of instruments with IEEE-488.1 and .2 bus, in SCPI language
- Data acquisition with PCs

August 1987 - September 1988
Electronics instructor, **Centre d'Instruction Navale**, Saint-Mandrier (1 year)

September 1985 - June 1987
Customer Engineer, **Hewlett-Packard**, Courbevoie France (2 years)

LANGUAGES

English: fluent
German: scholar level

ACTIVITIES

- Mountain bike, wind surf, jogging, horse riding
- Since 1982, publications in the electronic magazine Electronique Radio-Plans, technical articles (theoretical and practical)

SPICE MODEL DEVELOPMENT

Development, test and application of SPICE models (various platforms, IsSpice, PSpice, Cadence AWB) for Pulse Width Modulation controllers. Regular contacts with American experts: V. BELLO, R. RIDLEY, D. MITCHELL, L. DIXON, V. VORPERIAN, R.REDL etc.

« Beta Tester » for the U.S company INTUSOFT (San-Pedro, CA), the makers of IsSpice4

Publications

EDN (U.S.A)

Design Ideas :
April 28, 1994: Comparator improves regulator's efficiency
June 9, 1994 : Low-cost MOSFET quashes power resistor
August 4, 1994 : RC network eliminates precision reference **Best idea of the month**
August 17, 1995: Precharged capacitor ensures high-side start-up
February 17, 1997 : Dual Monostable Drives quasiresonant inverter
July 3, 1997 : Spice model simulates spark-gap arrestor
November 6, 1997 : Spice simulates a fluorescent lamp
August 3, 1998 : SPICE introduces dead time in simulations
September 1998 : Transistor quickly wakes sleeping LDO
December 1998 : Offline IGBT charges battery from mains
March 18, 1999 : Transistor pair lowers PWM IC's start-up current

Articles :
February 1997: "Predict Differential EMIs with a SPICE simulator"
April 1998: "Critical-mode control stabilizes switch-mode power supplies"
February 1999: "Get the best from your LDO regulators"

Electronic Design (U.S.A)

Feb 22, 1999: "IGBT Powers ultra-low cost Offline Wall adapter"
March 8, 1999: "IGBT Creates A Low-cost off-line "hiccup" supply"

PCIM (U.S.A)

December 1996: "Average simulations of FLYBACK converters with SPICE3"
April/May 1997: "Write your own generic SPICE Power Supplies controller models"
October 1997: "A Tutorial Introduction to Simulating Current Mode Power Stages"
Avril 1999: "Leaving with leakage inductance in FLYBACK converters"
October 1999: "The keys to protecting high-voltage offline switchers"

INTUSOFT NEWSLETTER (U.S.A)

Modeling a Spark Gap, Issue #50, septembre 97
Simulating a fluorescent tube, issue #51, novembre 97

ELECTRONIQUE (groupe TEST, France)

Mai 1998: “Les alimentations à découpage perdent du poids”
December 1996: “La conception des alimentations à découpage s’automatise”
March 1999 : "Tirez le maximum des régulateurs a faible tension de déchet"

Electronique Radio-Plans (France), since 1982

May 1995	: calculation and selection of offline bulk capacitors
April 1995	: power factor correctors, study and applications
January 1995	: power factor correction, dedicated circuits
December 1994	: power factor correction, theoretical introduction
July 1994	: electronic off-line ballasts
February 1994	: SPICE simulation and data acquisition
… October 1982	

Speeches

“MOTOROLA solutions to lowering standby power”, International Energy Agency Conference, Paris January 1999

Books at DUNOD Editor

The IEEE-488.1 and .2 bus, theory and application (in French), September 1996

Personal Industrializations

- Development and industrialization of a range of DC ballast for fluorescent tubes 6..18W for PHOTOWATT International S.A. (solar segment) 10.000 parts/year (1992)
- Conception and introduction to market of an autonomous solar lamp for private gardens (1993)
- Industrialization project of off-line electronics ballasts for Automobiles Peugeot in collaboration with SAGEM (1994)