Fabrice LUCIEN

Born on: June 16th, 1976 ■ Single ■ French driving license Address: 65, boulevard Félix Faure - 92320 Châtillon - FRANCE Mobile phone: +33 6 24 93 53 92 ■ Home phone: +33 1 41 17 09 66

E-mail: fabricelucien@yahoo.fr ■ Web site: http://fabrice.lucien.free.fr ■ LinkedIn: profile

OBJECTIVES

Bring my software engineering abilities to your company high-tech products development. Work with your customers for successful integration of your solutions. Help in bringing customers voice back to your company.

EDUCATION AND QUALIFICATIONS

ENSEIRB, Bordeaux, France

1996 - 2000

Top French engineering school in Electronics and Computer Science

Engineer diploma in Electronics with Telecoms specialization. Equivalent to third year above A-levels. Course modules: analog & digital Electronics, automatism (automation / real time), computer science & engineering, telecommunications, microelectronics.

LYCÉE RICHELIEU, Rueil-Malmaison, France

1994 - 1996

Preparatory for admission to French Engineering Schools. Advanced mathematics courses in preparation for competitive national exams, for entering French engineering schools.

"Baccalauréat, mention bien". Equivalent to A Level obtained with honors after 3 years in a Secondary school.

SKILLS

Computer Science & Electronics

Microprocessors	ARM7/9, ARC5, Cortex-M0, 80C51, Atmel AVR, NXP SmartMX, V20 (x86), V8, PIC, 68000.	
Programming	Assembly, C, MS Visual Basic/C++/C#, MFC, HTML, JavaScript, SQL, Lua, Python.	
languages		
Operating	Nucleus Plus, MQX, ThreadX, Windows XP-embedded, UNIX, Linux, BREW.	
systems		
Software	Design	JUDE / astah Community, Serena Dimensions RM.
development	Debugging	JTAG debug, emulator, logic analyzer, electronic signals measurement.
	Source code control	CVS, Subversion/SVN, Visual SourceSafe, Serena Dimensions CM.
	Documentation	Doxygen.
	Issues processing	Serena Team Track / Business Manager, JIRA, BugZilla, Oracle CRM On
		Demand.
	Quality	Fault Tree Analysis.

Fields

Security	Chip & magnetic cards	BO', ISO7816, EMV CPS, E-Sign, ISO7811, SIM/USIM for mobile.
	Cryptography	DES, RSA and SHA algorithms.
	Architectures	Identification Authentication Signature (IAS), Secure Electronic Transactions (SET).

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Wired data
USB (analyzer handling), SPI, I²C, DMA, XMODEM.

transfer

Wireless data GSM, in-band modem, GPRS, EDGE, R&S CMU tester, UMTS, LTE.

transfer X.25, ISDN, ATM.

AT commands, CMUX, OMA-DM.

Wi-Fi/WLAN, Bluetooth (PAN & SAP profiles).

IP v4/v6, NAT/PAT, DHCP, TCP, UDP, HTTP, FTP, DNS, Ethernet, ARP, Wireshark.

Automotive CAN bus (Vector CANalyzer, XL-Driver-Library), airbag interface.

Positioning
GPS, A-GPS, Dead-reckoning, NMEA frames.

Pata storage
File systems, SCSI, FAT, Flash memories.

Image & video Sliding scanners, CIS sensor, stepper motor, 2D & PDF417 barcodes.

BMP file format, TWAIN interface, DirectDraw.

Thermal impression process.

PCM_AMR_echo-cancellation

Audio PCM, AMR, echo-cancellation.

Languages

English Practiced well, TOEFL 500, language-learning trips in England. Emails and phone calls with

people from Brazil/China/India/Italy/NAM/Poland/Sweden. Frequent business trips inside

Europe. Work within a multiple regions company.

French Mother tongue.

German School notions, language-learning trips in Germany.

WORK EXPERIENCE

Software Application Engineer April 2007 – present SIERRA WIRELESS (ex-WAVECOM), Issy-les-Moulineaux, France

2G/3G Embedded Wireless Modules – Automotive industry field: providers of in-vehicle emergency call and Telematics systems (for PSA, BMW, Volvo, Renault)

Support closely strategic customers development teams in using company software layers and tools. Review customer source code. Participate to 2G/3G/GPS/Wi-Fi field tests. Process software issues: analyze and reproduce, report/escalate to developers in France/India/China, provide defect detailed explanation, then schedule fixes delivery. Have regular remote follow-up meetings, and on-customer-site workshops (1 day to 2 weeks in Europe).

Feedback **return of experience**: submit requests for improvements or new features, create application notes and source code snippets for world-wide usage.

Develop C/C#/Lua software for Sales/FAE teams to demonstrate products abilities and new features (e.g. emergency call, A-GPS positioning, 3G-WiFi car hotspot, eco-driving applet, CAN bus driver, CAN bus simulator, pseudo USB stick). Retrieve any missing knowledge from R&D experts. Provide technical answers to received RFI/RFQ.

Software Engineer July 2001 – March 2007 SAGEM DEFENSE & SECURITY, Eragny, France

Lottery Secured Terminals - 54 months

Take software responsibility for the **USB device** performing scan, print and **chip cards access**. Debug **real time firmwares embedded** into two ASICs, set-up their validation process. Implement evolutions to fulfill customers' requirements: add **magnetic card reading**, recto-verso color scan, and magnetic barcode acquisition. Port the whole source code from X86, to ARM and then ARC architectures. Move the **multi-threaded application** from Nucleus to MQX and then ThreadX **RTOS** environment.

Upgrade a Windows C++/MFC application used to test all terminal devices: scanner, printer, touch-screen, PCI card, motherboard. Add some GUI components.

Write functional English specifications, and technically support worldwide-located customers. Interact with hardware design team. Look for suppliers. Supervise one trainee.

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Smart Cards - 15 months

Integrate the team developing the "Vitale2" French health card. Specify and implement personalization and administration services. Respect strong constraints regarding security and code size. Write some Visual Basic scripts to validate the whole card behavior. Work closely with other engineers.

Upgrade a Windows (C#/.NET) application used for cards personalization.

Hardware Engineer

May 2001 - June 2001

SAGEM COMMUNICATIONS, Cergy, France

Mobile Phone Modules

Complete the hardware validation of the "base band" part of a GSM/DCS module.

Scientific Conscript Soldier

September 2000 – April 2001 FRANCE AIR FORCE, Orléans, France

Telecommunications Group

Improve one Visual Basic e-mailing application. Write the user guide of one telecom equipments management software.

Training Unit

Train a group of militaries to scientific subjects of a competitive military exam.

Trainee

UNIVERSITARY MICROELECTRONICS WORKSHOP (AIME) June 2000 - Toulouse, France

Integrated Circuits manufacturing.

Perform all the process steps required to produce an Integrated Chip starting from silicon substrate to final tests.

ACTIVIDENTITY July-November 1999 - Suresnes, France

Smart card reader for a european e-commerce solution

Develop in C language several cryptographic services to be provided by the card reader firmware.

SAGEM DEFENSE & SECURITY July-August 1998 — Eragny, France

Electronic systems used in fighters for navigation/attack

Follow-up tests and reparations of electronic cards. Set-up different wiring procedures of a test equipment.

Develop Visual Basic macros to convert an MS Office Excel file to ASCII.

RENAULT July-August 1997 — Rueil-Malmaison, France

Vehicle electronic calculators diagnostic tool

Fill-in a database. Consider requirements from people working on the different calculators.

ACTIVITIES AND INTERESTS

Sports Badminton, sailing, hiking.

Music Amateur guitarist.

Internet Web pages edition.

Miscellaneous Traveling, photography, movies, reading.

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