**Fabrice LUCIEN**

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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

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| [**ENSEIRB**](http://www.enseirb-matmeca.fr/), 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. | |

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| [**Lycée Rich****elieu**](http://www.lyc-richelieu-rueil.ac-versailles.fr/), 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**

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| ***Microprocessors*** | ARM7/9, ARC5, Cortex-M0, 80C51, Atmel AVR, NXP SmartMX, V20 (x86), V8, PIC, 68000. | |
| ***Programming languages*** | Assembly, C, MS Visual Basic/C++/C#, MFC, HTML, JavaScript, SQL, Lua, Python. | |
| ***Operating systems*** | Nucleus Plus, MQX, ThreadX, Windows XP-embedded, UNIX, Linux, BREW. | |
| ***Software development*** | ***Design*** | JUDE / astah Community, Serena Dimensions RM. |
| ***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**

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| ***Security*** | ***Chip & magnetic cards*** | B0’, 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). |
| ***Wired data transfer*** | USB (analyzer handling), SPI, I²C, DMA, XMODEM. | |
| ***Wireless data transfer*** | GSM, in-band modem, GPRS, EDGE, R&S CMU tester, UMTS, LTE.  X.25, ISDN, ATM.  AT commands, CMUX, OMA-DM.  Wi-Fi/WLAN, Bluetooth (PAN & SAP profiles). | |
| ***Internet*** | 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. | |
| ***Data 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. | |
| ***Audio*** | PCM, AMR, echo-cancellation. | |

**Languages**

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| ***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](http://www.sierrawireless.com/AboutUs/ContactUs.aspx). |
| ***French*** | Mother tongue. |
| ***German*** | School notions, language-learning trips in Germany. |

Work Experience

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| **Software Application Engineer** | | | *April 2007 – present* | [Sierra Wireless](http://www.sierrawireless.com/) (ex-Wavecom), Issy-les-Moulineaux, France |
| [*2G/3G Embedded Wireless Modules*](http://www.sierrawireless.com/productsandservices/AirPrime.aspx) *– 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. | | |

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| **Software Engineer** | | | *July 2001 – March 2007* | [SAGEM Defense & Security](http://www.morpho.com), Eragny, France |
| [*Lottery Secured Terminals*](http://www.morpho.com/identification/gaming-and-betting/?lang=en) *– 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. | | |
| [*Smart Cards*](http://www.morpho.com/e-documents/id-documents/products/?lang=en) *– 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**. | | |

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| **Hardware Engineer** | | | *May 2001 – June 2001* | [[SAGEM Communications](http://www.sagemcom.com/)](http://www.sagem-ds.com/), Cergy, France |
| [*Mobile Phone Modules*](http://www.sagemcom.com/FRANCE/produits/communications/m2m.html) | | | |
| Complete the hardware validation of the “base band” part of a **GSM/DCS module**. | | |

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| **Scientific Conscript Soldier** | | | *September 2000 – April 2001* | [France Air Force](http://www.ba123.air.defense.gouv.fr/), 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. | | |

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| **Trainee** | | | |
| [Universitary Microelectronics Workshop (AIME)](http://www.aime-toulouse.fr/) *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](http://www.actividentity.com/) *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](http://www.sagem-ds.com/) *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](http://www.renault.com/) *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

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| **Sports** | Badminton, sailing, hiking. |
| **Music** | Amateur guitarist. |
| **Internet** | Web pages edition. |
| **Miscellaneous** | Traveling, photography, movies, reading. |