

# Curriculum Vitae

## *Personal information*



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## *Education History*

1996 – 2000 / Hogeschool Antwerpen / Masters Degree in Electronics, Option Information and Communication Technology. (graduated with honors)

Thesis title : “Internet security and applications in eCommerce.”

## *Work Experience*

2007 – 2009 / *EiA Electronics NV / Lead embedded Linux developer*

Responsibilities: Linux porting (MX31, AMCC440, x86), Driver development, teamlead, toolkits development, training colleagues, customer Linux projects, research new technology.

2006 – 2007 / *Q-layer NV / Senior System Engineer*

Responsibilities: Xen & Linux kernel development for storage and communication technology, Infiniband development, maintenance of datacenter, design of Server Q-layer Certification Procedures.

2005 – 2006 / *Mind NV / Embedded Systems Architect*

Responsibilities: Consulting, training, porting and development of Free Software Operating Systems (mainly Linux and eCos) and applications for clients on various hardware platforms (x86, Virtex, PowerPC, ...)

2000 – 2005 / *Siemens NV / R&D Embedded Software Developer*

Responsibilities: Real-time Operating System design, Driver development, Linux porting, (security) software development, administration unix/linux servers, toolkits development, customer aid.

## ***Skills (quick overview)***

### **Programming Languages:**

C/C++, Assembly, Turbo Pascal, Python, Java, Visual Basic, SQL, Bash, VHDL.

### **CPU Architectures Experience:**

MIPS, m68k family, x86 (+SIMD extensions), PowerPC (4xx & 8xxx), Intel Xscale, StrongARM, SPARC, TMS320Cxx, ADSP-2100, 8051 family, 6502 family & Z80 family.

### **Security awareness:**

Custom firewall programming, Implementing hashing algorithms (RIPEMD160, MD5, SHA1), Symmetric algorithms (DES, 3DES, AES, Blowfish, XOR-based schemes), Asymmetric algorithms (Elliptic Curves & RSA based schemes), Key Exchange Schemes (Diffie-Hellmann, Double-SymmKey), Authentication algorithms (all currently known in GSM & UMTS)

### **Problem-solving solutions:**

Good at researching and implementing cost-effective Open-Source solutions, including OSS Embedded software (fi. embedded Linux) & LAMP (Linux Apache MySQL PHP) database-driven products.

### **Operating system knowledge:**

GNU/Linux, FreeBSD, NetBSD, OpenBSD, RTEMS, eCos, HP-UX, SUN/Solaris, BeOS, QNX, Windows & JanOS++.

### **Other experience:**

GNU tools (Autoconf, automake, profiling, object analysis, CVS, VI, Xemacs, ...)  
GUI toolkits (MS MFC, wxWidgets,QT)  
Physics & math libs (ODE, GSL, ...)

### **Communication protocols:**

TCP/IP, ATM, Ethernet, CAN, Infiniband, USB, SPI, WLAN & various RS232 protocols.

### **Spoken Languages:**

Dutch:	Great Reading	Great Writing	Great Speaking
English:	Great Reading	Great Writing	Great Speaking
French:	Good Reading	Average Writing	Good Speaking
German:	Good Reading	Poor Writing	Average Speaking