

**Professional Experience**

**2009 to today Cooper EAS (Cybec) Québec**  
**Developer**

- Design and development of tool for a new platform
  - design, specification, documentation and development of configuration and synchronization tools for the communications module of the “Purple” platform
  - development of test plans
  - code developed in C++
  - features developed for Windows CE 6 on ARM (Thumb)
- Design and development of specific functionalities for the Windows CE6 platform
  - developed in C
- Port components to Windows CE6 and Visual Studio 2008
- Training on « Design by contract »

**2004 to 2009 Optel Vision Inc. Québec**  
**Chief Software Architect**

- Design and development of the new software platform
  - modular and distributed platform
  - developed in C++
- Internal training in software design and C++
  - preparing and presenting courses on software design and C++, including *design by contract*, *threads*, *generic meta-programming* and other subjects
  - training of new programmers and direction of interns
- Team Lead for R&D Software (2005 to 2008, until the R&D department was closed)
  - team of between three and twelve people (seven most of the time)
  - implementation of development and quality assurance procedures and processes
  - implementation of a ticket management system (for bugs and feature requests)
- R&D Project Management
  - long-term projects for the development specialized solutions for clients or products
  - highly “technical” projects
- Support for the Sales Department
  - conference calls with customers about the software architecture
  - presenting our solutions from a technical/technological point of view
- Driver and Firmware Development
  - protocol driver for a network communications protocol based on UDP
  - firmware for Motorola 68K micro-controllers

**2002 to 2004**

**Harvest S.A.**

**Paris**

***Software Development Engineer - C++***

- Design and Development of a Calculation Engine Framework
  - modular framework, with “pluggable” calculation modules
  - Java interface (JNI)
- Design and Development of Thread-Safe Abstract Data Types
  - most notably a thread-safe hash table optimized for concurrent reads
- Development of a Linux-X-FreeBSD and Linux-X-AIX cross-compiler
  - compiler allowing its user to compile on a Linux system and deploy on a FreeBSD or AIX system
  - based on GNU GCC
  - implied porting RedHat Newlib to FreeBSD and AIX
- Migration from MKS to CVS for the Software Team
  - training on using CVS and on the differences between CVS and MKS
  - implementation of a CVS server and subsequent transfer to the network administration team

**2001 à 2002**

**MiniSAT S.A.**

**Paris**

***Network Administrator and Project Manager***

- Design and Development of a “Back-Office” CMS
  - generation of C code from data stored in a MySQL database
  - written in Perl
  - direction of interns
  - server management
  - implementation of CVS and coding standards

**Open-Source  
Software  
(selection)**

**Arachnida: an embeddable HTTP(S) server and client**

***Author***

<http://arachnida.sf.net>

**The Funky embeddable interpreter and programming language**

***Author***

<http://funky.vlinder.ca>

**Depends generic dependency tracker**

***Author***

<http://depends.sf.net>

**Yara: Yet Anoter RSS Aggregator**

***Author***

<http://yara.sf.net>

**Publications**

**The Adapter Pattern**

Dr Dobb's Journal

May 8, 2007

<http://www.ddj.com/architect/199204099>

<b>IT &amp; Software</b>	<p><b>Programming Languages</b></p> <ul style="list-style-type: none"> <li>• C++, C</li> <li>• Java</li> <li>• Perl, PHP, SQL, JavaScript</li> <li>• UNIX Scripts (Bash)</li> <li>• .NET</li> </ul> <p><b>Techniques et technologies de développement logicielle</b></p> <ul style="list-style-type: none"> <li>• Programmation orienté objets</li> <li>• Méta-programmation générique</li> <li>• Multi-threading</li> </ul> <p><b>Systemes d'exploitation</b></p> <ul style="list-style-type: none"> <li>• Linux, Windows XP/XPe</li> <li>• FreeBSD</li> <li>• Windows Vista</li> </ul> <p><b>Autres technologies</b></p> <ul style="list-style-type: none"> <li>• GIT, CVS</li> <li>• Visual Studio .NET (versions 2003 et 2005), Eclipse</li> <li>• MySQL</li> <li>• Modélisation UML, Enterprise Architect (version 6.1)</li> <li>• Oracle, PostGreSQL</li> </ul>	 <p>15 yellow stars arranged in a grid-like pattern, representing ratings for various IT and software skills.</p>
<b>Languages</b>	<p><b>Dutch/English/French</b> <b>German</b></p>	<p>Trilingual Read &amp; Spoken</p>
<b>Education</b>	<p><b>1996 to 2001</b> <b>University of Amsterdam</b> <b>Bachelor in Sciences (BSc)</b></p> <ul style="list-style-type: none"> <li>• Studies in Biology and Computer Science</li> </ul> <p><b>1989 à 1996</b> <b>Almere College</b> <b>Atheneum</b></p>	<p><b>Amsterdam</b> <b>Kampen</b></p>
<b>Other Professional Experience</b>	<p><b>2001</b> <b>Institut de Biotechnologie des Plantes</b> <b>Intern</b></p> <ul style="list-style-type: none"> <li>• research into the evolution of resistance genes in <i>Phaseolus vulgaris</i> and <i>Phaseolus coccineus</i></li> <li>• creation of a genomic banc of a <i>Colletotrichum lindemuthianum</i> strain</li> </ul> <p><b>1999 à 2000</b> <b>Swammerdam Institute of Life Sciences</b> <b>Intern</b></p> <ul style="list-style-type: none"> <li>• research into the transformation of <i>Fusarium oxysporum</i> f. sp. <i>lycopersici</i> through the electroporation of conidia to create insertional mutants in order to be able to research pathology factors on <i>Lycopersicon esculentum</i></li> </ul>	<p><b>Paris</b> <b>Amsterdam</b></p>