



## **Maciej Sobczak – CV**

I live and work in the Warsaw area, Poland.

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My 12 years of professional experience:



See further pages for details.

## **Education**

### **March 2003 - August 2004 (Ph.D. studies, not finished).**

Warsaw University of Technology,  
Faculty of Electronics and Information Technology.  
**Main field of studies:** Computer Science - modeling and reasoning.

### **1997 - 2003 (M.Sc.).**

Warsaw University of Technology,  
Faculty of Electronics and Information Technology.  
**Main field of studies:** Software Engineering and Information Systems.

## **Job experience**

### **June 2010 – (current position) Inspirel, Warsaw.**

- **Position:** Founder and CEO, consultant.
- **Responsibilities:** The company operates in the area of distributed systems, high-integrity software construction and general technical consulting. As a CEO of the young software company I am involved in the complete software market cycle, from product design and development, collaboration management and project partnership to customer service, training and technical promotion.

### **March 2008 – February 2011. European Organization for Nuclear Research (CERN), Geneva.**

- **Position:** Middleware Team Leader.
- **Main technologies:** C++, Java.
- **Responsibilities:** Ensuring proper operation of central middleware services in the accelerator complex, team leadership and project management.

### **March 2005 – February 2008. European Organization for Nuclear Research (CERN), Geneva.**

- **Position:** Software designer and programmer.
- **Main technologies:** Linux, LynxOS, C++.
- **Responsibilities:** Development of real-time and distributed control systems in the areas of communication, diagnostics, data security, accelerator protection and server-side framework and libraries.

### **June 2004 - August 2004. EDS Poland, Warsaw.**

- **Position:** Software designer, programmer.
- **Main technologies:** HP-UX, Oracle (PL/SQL, OCI), Kenan/BP, C++.
- **Responsibilities:** Maintenance and development of various Unix modules in the large-scale billing system.

### **September 2003 - May 2004. Innsoft, Warsaw.**

- **Position:** Software designer, programmer.
- **Main technologies:** Oracle, C++, Boost.
- **Responsibilities:** Design and development of solutions related to the energy market. Main focus on the data analytical processing (energy loads forecasting), user interface development, database design and infrastructure development (multithreading, communication and libraries).

### **October 2001 - December 2002. Astech Polska S.A., Warsaw.**

- **Position:** Database designer, systems analyst.

### **September 2000 - August 2001. European Organization for Nuclear Research (CERN), Geneva.**

- **Position:** Programmer, administrator.

### **October 1999 - August 2000. Astech Polska S.A., Warsaw.**

- **Position:** Programmer.

## **Certificates**

- Master C++, Brainbench
- Java Programmer, Sun
- Java Developer, Sun

## Professional memberships

I am a direct member of *Ada-Europe*, an international organization which was set up to promote the use of Ada and share the industrial experiences related to safety, security and reliable software construction.

## Open source experiences

### SOCI

I am the project leader of the *SOCI* project, which is a C++ database access library. The library uses advanced programming techniques and provides innovative user-level features. The final product is frequently described as the best C++ database access library currently available on the market and was repackaged for inclusion in at least one official Linux distribution.

## Publications

### Book:

- *"Programming Distributed Systems with YAMI4"*, published by Lulu and regularly updated following the evolution of the YAMI4 product (Inspirel).

### Articles:

- *"Polymorphic Callbacks for Ada/C++ Bindings"*, Ada User Journal, June 2010 No. 2 (31).
- *"Experiences ub Evaluating Ada with a Pilot Project"*, Ada User Journal, December 2009 No. 4 (30).
- *"C++ 2.0 - Second edition of the C++ standard"*, Software Developer's Journal, April 2006 No. 4 (136).
- *"IOStreams Storage"*, C/C++ Users Journal, January 2006 Vol. 24, No. 1.
- *"C++/Tk - A Different View on GUI"*, Software Developer's Journal, October 2005 No. 10 (130) and in *Programmation sous Linux*, November/December 2005 No. 1(1).
- *"The Efficiency of Using Functors with the C++ Standard Template Library"* (I.Szczesniak, M.Sobczak), presented at the Polish Linux Users Group Conference 2005, Krynica, Poland, April 2005.
- *"A Simple Oracle Call Interface"*, Dr. Dobb's Journal, December 2004 Vol. 29, No. 12.
- *"STL Sequences & the View Concept"*, C/C++ Users Journal, April 2004 Vol. 22, No. 4.
- *"YAMI: A Simple ORB Library"*, C/C++ Users Journal, December 2003 Vol. 21, No. 12.
- *"Java-like Messaging System for C++ Classes"*, C/C++ Users Journal, May 2003.
- *"An Iostream-Compatible Socket Wrapper"*, C/C++ Users Journal, December 2001 Vol. 19, No. 12.

Apart from the articles listed above, I frequently publish technical texts on the Inspirel website.

## Conferences

- *16th International Conference on Reliable Software Technologies Ada-Europe 2011, Edinburgh, UK*  
I have prepared a half-day tutorial on *"Programming Distributed Systems with YAMI4"*.
- *15th International Conference on Reliable Software Technologies Ada-Europe 2010, Valencia, Spain*  
I have given an industrial presentation, *"Implementing Polymorphic Callbacks for Ada/C++ Bindings"*.
- *The 10th International Conference on Accelerator and Large Experimental Physics Control Systems (iCALEPCS 2005)*. I have contributed to the paper *"The Controls Architecture for the LHC Collimation System"* and to the related poster.

## Consultantships

- C++ Training for the team of programmers at Blue Crest Capital, Geneva.
- General consulting related to middleware and distributed systems solutions for the Brera Astronomical Observatory in Milan, Italy.
- Consultations and review of the Polish translation of the *"Modern C++ Design"* book by Andrei Alexandrescu, translated by Grzegorz Jakacki. The home page of this translation is at <http://www.nowoczesne-cplusplus.com/>.

## Languages

- Polish, native
- English, fluent
- French, medium