

Work Experience

Since September 2001

CSTB (Scientific and Technical Centre in Building research), Sophia-Antipolis, France.
Turnover: ~100 M€, ~ 900 employees.

Software Engineer in the «Information and Software engineering» department

- Analysis, design and development of [Mathis Studio](#), environment for the airflow modelling, thermal and humidity behaviour of a building.

Main responsibilities:

- Analysis, design, implementation and testing
- Documentation
- Integration of the graphical interface and core simulation engine

Technologies: Visual Studio 2015, WPF, C#.

- Analysis, design and development of [Eurobat](#), environment for average wind and dynamic pressure prediction for high building construction.

Main responsibilities:

- Analysis, design, implementation and testing
- Documentation
- Implementation of European regulations

Technologies: Visual Studio 2015, C#, IGN data, Shapefile, Google Maps API.

- Analysis, design and Development of [Trnsys Simulation Studio](#), a complete and extensible environment for the transient simulation of systems, including multi-zone buildings. Version 17 has been released some years ago and I'm actually working on Version 18.

(see [Trnsys Official Web site](#))

Main responsibilities:

- New features (wizard, search engine, text editor/designer, plug ins...)
- Debugging and patching of existing code
- Hotline
- Documentation
- Integration of the graphical interface and all related modules: core simulation engine and building (travelled to the United States and Germany to ensure the success of the project)
- Adaptation of the graphical interface to a different core engine simulation (air flow simulation)
- Bilingual presentation and training (English and French) within European and international projects (travelled to Germany and China).

Technologies: Visual Studio 2013, C++, C#, MFC, Stingray libraries, Wise Installer

- Analysis, design and development of [Transol](#), tools for predicting thermal performance of Solar Domestic Hot Water Systems, building heating and swimming pool heating, in residential and commercial buildings.

(see [Transol Official Web Site](#))

Main responsibilities:

- Analysis, design, implementation and testing of new features (dynamic file selection, economic analysis, step by step assistant, graphics...)
- Debugging and patching of existing code
- Hotline
- Documentation
- Integration of the graphical interface and core simulation engine in an international setting (travelled to Spain)

Technologies: Visual Studio, C++, MFC, Stingray libraries, Svg, Wise Installer

- Analysis, design and development of several software intended to test and validate french national thermal regulation and energy behaviour of buildings.
Main responsibilities:
 - Analysis, design, implementation and testing
 - Documentation
 Technologies: Visual Studio 2013, .NET Win Forms, WPF

April 2000 to July 2001

Ericsson - Bluesoft, Sophia-Antipolis, France

Software Engineer

- Design and development of [Wireless Wallet SDK](#), software intended to create and download WAP services to a wireless wallet (bluetooth mobile phone accessory).
Main responsibilities:
 - Development of graphical interface
 - Development of WAP services and Javacard applications
 - Integration of a JSP module
 - Training of Swedish students and Ericsson employees on the Wireless Wallet SDK (in English, travelled to Sweden)
 Technologies: Java, swing

Education

School

2000	ESSI (Advanced graduate diploma from the ESSI IT school), Sophia-Antipolis
1997	Two-year University degree in Mathematics – Physics – Mechanics, Nice
1994	High School Diploma in Mathematics and Physics, Grasse

Professional trainings WPF, HTML5, ASP.NET, C#, C++, Java, MySql, UML, Project management

Professional Skills

Project management Design and development of software applications (Windows, Internet, embedded) with databases access including:

- Preliminary analysis
- Specifications
- Architecture
- Budget prevision
- Versioning
- Testing
- Deployment
- User manual
- Hotline
- Management of interns working on the project
- Training on the developed software (in English and French)
- Webinar presentations (Gotomeeting)

Software languages **.NET / C#, WPF, C++** (MFC / Rogue Wave Stingray libraries, QT), **Java, HTML 5** (JavaScript), **SQL, UML**.

Software Visual Studio, GIT, SVN, Eclipse, Wise Installer, Office suite.

Languages

- English: fluent (Toeic 930 passed in 2017, training course in the United States, professional travels to English speaking countries, trainings, phone conferences).
- Italian: notion.

Personal interests

Sport, motorbike, automotive, cooking, travelling.

References

Werner Keilholz (CSTB Team Leader) - werner.keilholz@gmail.com
 Michel Koenig (Ericsson-Bluesoft CEO) - koenig.m@wanadoo.fr