M. Fabien ROMEO
3 rue Emile Ducarre
84160 Cadenet

Born on 02/01/1980 in Mourenx (64).
Pacsé, one child.

Mobile: 06 84 19 91 95
E-mail: contact@fromeo.fr
Web: http://www.fromeo.fr

PhD in Software Engineering

EDUCATION

2003-2007 — **PhD in Software Engineering**, with honors.
Subject: Management of Wireless Software Component
Université de Pau et des Pays de l'Adour (UPPA), *Pau.*

2002-2003 — **MSc. In Software Engineering**, with honors.
(***DEA Programmation et Systèmes***)
ENSEEIHT – Université Paul Sabatier – Sup'aéro, *Toulouse*.

LANGUAGES

French	**Mother tongue**
English	**Fluent (TOEIC : 900/990 points)**
Spanish	Scholar
Italian	Notions

MAJOR SKILLS

Modeling	UML 2, OCL, Statecharts, MDA, Eclipse EMF/GMF.
Programming	Java, C/C++, XML/XSL, AspectJ, SQL, JSP, JSTL, XHTML, CSS, JavaScript/DOM, JET.
Technologies	Java ME, Java EE, AWT/Swing, JMX, JavaBeans, Java RMI, JMS, Struts, Hibernate, Eclipse TPTP, WSDL, CBE/WSDM, AJAX, XML-FO, SVG, JUnit, CVS, Subversion.
IDE & tools	Eclipse, NetBeans, Ant, Sun Wireless Toolkit, IBM WEME, Tomcat.
Systems	Linux, Windows, Windows Mobile, Microsoft Virtual PC.

PROFESSIONAL EXPERIENCE

Sept. 2008 - July 2009 — **Ecole Internationale des Sciences du Traitement de l'Information (EISTI)**, *Pau*
Teaching
Assistant professor: Teaching at MSc. level.

• In charge on both campus (Cergy and Pau) of teaching graduate courses on Model-Driven Architecture and Java EE and Aspect-Oriented Programming: wrote courses and educational materials, lecture through visioconferencing.

• In charge on Pau's campus of teaching the following courses:

- Oriented-Object Design (ING2)
- Model-Driven Engineering (ING2)
- Network Programming with Java (ING2)
- Methods & Tools (ING2)
- Database (ING1)
- Design & Analysis with UML (ING1)

• Instructor on the following courses :

- Human Computer Interface with Java (ING2)
- XML,Technologies (ING2)
- Programming II : Java (ING1)
- Introduction to XML (ING1)
- Algorithms (ING1)
- Operating Systems (ING1)
- Graphe Theory (ING1)

• Evaluated students (exams, projects and oral presentations)

• Participated in prospecting events :

- *salon de l'étudiant* in Bayonne,
- *journée portes-ouvertes de l'EISTI* in Pau,
- *salon de l'aéronautique* in Pau

Java 6, Swing, AJAX, Java EE, JSP, JSTL, Hibernate, Struts, UML2, Design Patterns, OCL, JET, EMF/GMF, XML/XSL, XML-FO, SVG, SQL, AspectJ, Linux, Windows, Shell UNIX, Eclipse, NetBeans, Ant, Tomcat

Oct. 2007- Aug. 2008 — **Università degli Studi di Milano-Bicocca**, *Milan (Italie)*.

Research

→ **European project:** SHADOWS (http://sysrun.haifa.il.ibm.com/shadows/)
Post-doc position (Researcher) : Design and development of a self-healing technology for fault detection and diagnosis.

• developed parts of the self-healing platform with Java / Eclipse (http://sysrun.haifa.il.ibm.com/shadows/)

• studied CBE specification in order to deal with event communication inside the self-healing platform (Java, XML)

• evaluated on industrial Java applications a test coverage criterion adapted to object-oriented development

• wrote deliverables on SHADOWS' platform specifications

Java, Eclipse TPTP, WSDL, CBE/WSDM, AspectWerkz, JUnit, CVS, Subversion

2003-2007 — **Laboratoire d'Informatique de l'UPPA**, *Pau.*

Doctorant & Attaché Temporaire à l'Enseignement et à la Recherche (ATER) :

Research

Thesis on administrating software components deployed on wireless systems

• Defined a method of software development based on model execution techniques using UML State Machines

• Designed an architecture for administrating software components embedded in wireless systems remotely

• Implemented the Java technology called « Wireless Management eXtensions » (WMX - http://wmx.fromeo.fr) which is referenced by Sun Microsystems as a JMX solution for Java ME

• Implemented the Java technology called « PauWare.Velcro » which enables the execution of UML State Machines on Java ME environments (http://www.pauware.com)

• Scientific publications (cf. Selected publications)

Java, JMX, Java ME, MIDP, MIDlet, Xlet, Sun Wireless Toolkit, IBM WEME, Bluetooth, Wifi, SMS (WMA), Microsoft Virtual PC, Windows Mobile, UML

Teaching

• Instructor in the following courses:

- Software components (Java EE, EJB)
- Object-Oriented Technology (Java, Swing, JavaBeans, Netbeans)
- Internet Application Development (XHTML, CSS, JavaScript)
- Algorithms (C++, STL, Scheme (Lisp)
- Systems & computer architecture (C, Script shell)

Java EE, EJB, Java, Swing, JavaBeans, NetBeans, XHTML, CSS, JavaScript, C++, STL, Scheme (Lisp), C, Script shell)

Jan.-June 2003 — *Internship*

Laboratoire d'Informatique de l'UPPA, *Pau*.
→ **European project:** Component+
Mission : Designing and implementing software engineering tools to integrate in the project

• Designed and implemented in Java/JMX a composition environment for software components based on the Whole-Part theory

• Implemented tools to automate the use of the Built-In Test technology on Java software components

Java, UML, JavaBeans, UML State Machines, JMX

May-Aug. 2002 — *Internship*

Institut Français du Pétrole, *Pau*.
Mission : Designing a Web application for ray tracing in geophysics

• Implemented a light client in Java/Swing to graphically model a 2D view of the underground

• Established the communication between the Java client and the IFP's remote mainframe server which interprets the data from the underground

Java, Swing, Applet, Servlet, CVS, UNIX, UML, Rational Rose

Jan.-May 2002 — *Internship*

Laboratoire d'Informatique de l'UPPA, *Pau*.
Subject : Generating Graphical Java Interfaces for Testable Components

• Studied JMX technology

• Developed with JMX a graphical tester embedded in BIT/J library

Java, JMX, UML State Machines

SELECTED PUBLICATIONS

Franck Barbier, Fabien Romeo. Chapter 15, *Administration of Wireless Software Components* in Handbook of Research on Mobile Business, Idea Group Publishing, 2006. pp. 200-215

Jean-Michel Bruel, Franck Barbier, Nicolas Belloir, Fabien Romeo. *Test de Composants Logiciels*, Ingénierie des composants : Concepts, techniques et outils, Vuibert, Chap. 4, 2005.

Fabien Romeo, Franck Barbier. *Administration de composants logiciels : application aux systèmes sans fil*, revue Génie Logiciel, 73, GL & IS, 2005. pp. 39-43

Fabien Romeo, Franck Barbier, Jean-Michel Bruel. *Observability and Controllability of Wireless Software Components*, proceedings of the 7th IFIP International Conference on Distributed Applications and Interoperable Systems (DAIS 2007), Paphos, Cyprus, 5-8 June, 2007. pp.48-61

Fabien Romeo, Franck Barbier, Jean-Michel Bruel. *Autonomic Management of Component-Based Embedded Software*, proceedings of the 10th IFIP/IEEE International Symposium on Integrated Management (IM 2007), Munich, Germany, 21-25 May 2007. pp. 860-863

Fabien Romeo, Franck Barbier. *Management of Wireless Software Components*, proceedings of the 10th International Workshop on Component-Oriented Programming (WCOP'05) in the 19th European Conference on Object-Oriented Programming (ECOOP'05), Glasgow, Scotland, July 25, 2005.

Franck Barbier, Fabien Romeo. *Administration of Wireless Software Components*, ETSI/MOCCA Open Source Middleware for Mobility Workshop, ETSI, Sophia-Antipolis, France, 6 Avril 2005.

ADMINISTRATIVE WORK

2005-2006	Member of the laboratory council of LIUPPA
2005	Reviewer of the Journal of Science of Computer, Volume 56, Avril 2005
2004-2005	Member of the scientific council of UPPA

INTERESTS

Leisure	Alpine skiing, Scuba-diving, basketball, reading, guitar.
Travels	Italia, Ireland, Suede, England, Germany, Cyprus, Spain, U-S (Houston).