

Vivian Brégier



☎ 09 51 82 04 51

📞 06 64 70 29 23

✉ Vivian.Bregier@gmail.com

EDA Software Engineer, PhD

Work experiences

since 2013 Software engineer at Siemens EDA (previously Mentor Graphics) :

since 2019 **C++ development: analog simulation:**

- implementation of new fonctionnalités, code maintainance
- improvements on development process
- switch to newer compiler

2013-2019 **C++ development: parasitic extraction:**

- implementation of new fonctionnalités, refactoring, and maintainance
- Participation to Code Quality Initiative. The goal is to initiate background tasks to progressively improve the quality of the enormous codebase (10 million lines of code):
 - common code,
 - modularization,
 - set up unit tests,
 - measure tests coverage,
 - going to c++11, ...

2007–2013 Analyst–developer at Atos Origin :

2012–2013 **C++ development, integration and testing for ITER Organization:** fast acquisition for magnetic diagnostics

2009–2012 **C++ and ada developments :** nuclear reactor control software

2009 **Linux System :** Realization of a high availability radius server (software and hardware redundancy) for a satellite communication network for oil wells : sepecification, setup and validation

2008–2009 **C#.net development :** calibration and verification software for electronic tools embedded inside drilling bits

2007–2008 **integration** of the components of an oil wells survey software, under Red Hat Linux

2003–2007 PhD at TIMA laboratory, CIS group : *Automatic synthesis of optimized, proven quasi-delay-insensitive asynchronous circuits*

Skills

Software engineering

Expert C++(98,11,14,17)

Experienced software design and architecture, unit testing, debugging, performance analysis

C, python, ocaml, bash, LaTeX, xml, sql, ...

Linux system (Debian, Red Hat)

EDA

- analog simulation
- parasitic extraction

Languages

French mother tongue

English read, written, spoken fluently

Diploma

2007	PhD in microelectronics, INP Grenoble
2003	DÉA (equiv. Master) in computer science, ÉNS Lyon
2001	License in computer science, ÉNS Lyon
2000	License in Physics, ÉNS Lyon