Damien Dosimont

Ph.D. in Computer Science
Visualization and Performance Analysis

Applying for a postdoctoral position

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dosimont
Damien Dosimont
French driving licence

Experience

2012 - 2015   **Contractual Researcher**, *Inria*, Montbonnot Saint-Martin (Grenoble Area), France

Trace analysis based on aggregation, visualization and interaction techniques

- Design of overview methods based on data aggregation for the analysis of voluminous execution traces provided by real-time embedded systems or HPC systems.
- Design and implementation of an open-source analysis tool, **Ocelotl**, and a data aggregation library, **LPAggreg**. Contributor in the development of the **Framesoc** analysis infrastructure.
- Collaborations within the SoC-Trace project with STMicroelectronics, within the ANR project SONGS, and within the LICIA French-Brazilian laboratory.
- 3 publications in international conferences.
- Supervising an engineer and an intern.

Keywords: trace visualization, information visualization, big data, data aggregation, embedded systems, HPC, Java, C/C++

2012 - 2014   **Contractual Teacher**, *Polytech'Grenoble Engineering School*, Saint-Martin d'Hères (Grenoble Area), France

- Teaching programming (128 hours): client-server project (POSIX, System V), HCI project (Swing), algorithmic and object programming practicals (Java), C and C++ practicals.

2011 (6 months)   **Engineering Intern**, *Thales Communications and Security, S.A.*, Paris Area, France

Performance analysis of embedded systems

- Design and implementation of POSIX and DVFS/ORB benchmarks.
- Performance evaluation of several hardware and software combinations of real-time and embedded architectures.

Keywords: benchmarking, embedded systems, POSIX, C/C++, Linux, ARM Cortex A8/A9

2010 (2 Months)   **Research Engineer**, *LIP6, Université Pierre et Marie Curie Paris VI*, Paris, France

Design space exploration of a virtually prototyped telecommunication application

Keywords: DSX, SocLib, MPSoC, task farm, SystemC, Python

Skills

- **Programming**
  - **Proficient:** C, C++, Java, Shell, Python, Shell Unix, ASM, SystemC, VHDL, HTML, LaTeX, R
  - **Notions:** MPI, VHDL-AMS, Lustre, Esterel

- **Tools**
  - **Proficient:** Eclipse, Git/Github, SVN, GCC, Make, Score-P, Vampir, LTTng, OAR (Grid'5000), Office
  - **Notions:** Xilinx, Altera Quartus, Modelsim, PSpice, Matlab

- **Systems**
  - Unix/Linux, Windows

- **Communication**
  - Scientific articles, technical reports, talks in English

- **Languages**
  - **French** (mother tongue), **English** (professional working proficiency), **Portuguese** (basic), **German** (to reactivate)

Education

2012 - 2015   **PhD, Computer Science**, *Université de Grenoble*
Thesis title: Spatiotemporal Aggregation for Execution Trace Visualization

2009 - 2011   **MSc, Computer Science**, *Université Pierre et Marie Curie*, Paris VI, *with honors*
specialization in Architecture and Conception of Integrated Systems

2005 - 2009   **BSc, Electronics**, *Université Pierre et Marie Curie*, Paris VI, *with honors*

Interests

- Video games, programming, music (bass guitar, saxophon, computer music), mountain bike, cinema, literature, cooking, board games, travels