Laurie Lugrin

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Software developer

Skills

• Personal skills:

- · Fast and enthusiastic learner
- · Both analytical and creative thinker
- · People-oriented and cooperative

• Programming languages:

· C, C++, Python, Java, ADA, OCaml, Prolog, unix shell

• Theory:

- · Artificial Intelligence: machine learning, knowledge representation, reasoning
- · Formal methods: model-checking, abstract interpretation, temporal logics

• Languages:

· French: mother tongue

· English: experienced (B2 European level CEFR in 2008)

· German: some knowledge

Professional experience

(15 months)

Oct 2009 – Dec 2010 Engaged in a PhD about energy consumption of wireless networks and more generally embedded systems, supervised by F. Maraninchi and L. Mounier, at Verimag (Grenoble, France).

- · Research and development: proposed a comparison basis for energy consumption models and an algorithm for it; implemented the algorithm in Python; studied the datasheet of the radio device CC1100 to confirm the performance of my implementation.
- · Talks: gave many presentations of my Ph.D. work, to 15 to 30-person audiences in English as well as in French.
- · Teaching: taught 90 hours of tutorials and practical works (algorithmic and programming in C, formal languages).

2008 - 2009Taught tutorials in Computer Science for 1st- and 2nd-year students having difficulties, alongside my studies (in groups and individual classes).

Summer 2008 (3 months)	Contributed to a software model checker (\sim 30k lines of Java): I implemented a new semantics of μ -calculus and compared its performance (time, precision) w.r.t. the standard semantics, as an Intern at the university of Toronto, Canada.
Feb 2008	Designed and implemented a compiler from a functional language with process parallelism (the <i>happy language</i>) to C. Written in Java with 4 other students.
Summer 2007	Worked for a community of towns at the reception desk.
May-June 2007	Designed and implemented the $\bf puzzle~game$ Blokus. Written in Ada with 5 other students.
Summer 2006	Contributed to intelligent tutoring system for surgeons, as an Intern at LIG (Grenoble, France): I designed and implemented a database in SQL. I also initiated a web site in XHTML/CSS2.
Summer 2005	Worked in a papermaking industry, at the transportation service.

Personal projects

Since Oct 2010	Designed a frogger game on FPGA . I conducted a requirement analysis, wrote a prototype in C/SDL, I am using the version control system Git and coding in VHDL.
Late 2008	Developed an ${\tt IRC}$ bot in Python which makes rhymes and funny remarks interacting with the discussion.
Summer 2007	Developed of a snake game in Python/Pygame.

Education

2007 - 2009	MSc in Computer Science, option Artificial Intelligence and Web, with high honors – Université Joseph Fourier, Grenoble, France
2004 - 2007	$BSc\ in\ Computer\ Science,$ with high honors – Université Joseph Fourier, Grenoble, France
2004	Baccalauréat scientifique (equivalent to High School diploma), with honors – Lycée de la Versoie, Thonon-les-bains, France

Hobbies

- Music, playing the guitar.
- Sports: badminton, via ferrata, ski.
- Juggling: member of the juggling association Argument Massue. I conducted initiation workshops.

References provided on request.