Laurie Lugrin

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Software developer

Skills

• Personal skills:

- · Fast and enthusiastic learner.
- · Both analytical and creative thinker.
- · People-oriented and cooperative.
- · Calm, articulate.

• 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 (μ -calculus, CTL).

• Languages:

- · French: mother tongue.
- · English: experienced (B2 European level CEFRL).

Work 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 comparaison 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 2009 Taught tutorials in Computer Science for 1st- and 2nd-year students having difficulties, alongside my studies (in groups and individual classes).
- Summer 2008 Contributed to a software **model checker** (\sim 30k lines of Java): I (3 months) implementated 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 *happy language*) to C. Written in Java with 4 other students.
- Summer 2007 Worked for a community of cities, at the reception and at the tourism departement.
- May-June 2007 Designed and implemented the **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 Developped in Python an IRC bot which makes rhymes and funny remarks interacting with the discussion.
 - Summer 2007 Developped of a snake game in Python/Pygame.

Education

- 2007 2009 Master (equivalent to a masters) in Computer Science, option Artificial Intelligence and Web, with high honors Université Joseph Fourier, Grenoble, France.
- 2004 2007 Licence (3-year diploma) 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.
- Juggling: member of the juggling association Argument Massue. I conducted initiation workshops.