

RESUME - HORST SAMULOWITZ -

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Education

- **Ph.D. Candidate** Computer Science, University of Toronto, Knowledge Representation Group. Advisor: Professor Fahiem Bacchus. Project: *Quantified Boolean Formulas*, **September 2003-present**.
- **M.Sc.** Computer Science, Rheinisch-Westfälische Technische Hochschule (RWTH), Aachen, Germany, Knowledge Representation Group. Advisor: Professor Gerhard Lakemeyer. Project: *Evaluation-Based Reasoning in First-Order Knowledge Bases*, **October 1997 - February 2003**

Work Experience

- **Teaching Assistant, University of Toronto, Toronto, Canada, September 2003 - present**
Duties include marking assignments and exams, conducting weekly one hour classroom tutorials, office hours, lab hours, and also setting up lecture/tutorial notes and assignments.
- **Internship at Microsoft Research, Cambridge, England, July - October 2006**
Together with Lucas Bordeaux I worked on a new constraint satisfaction framework. We focused mainly on a straight forward and natural integration of uncertainty in the context of constraint satisfaction (e.g., to model work flows). For more details please refer to my publications online.
- **Founder and Executive Board, IT-DEVELOP Corp., Aachen, Germany, May 2001 - January 2003**
The main activities were related to the development of a contemporary communication platform that enabled interactive location-based event management. The underlying motivation behind the launch of this company can be summarized as follows. Mobility is becoming evermore important and present in our society - both in business and in private life. People use mobile phones, PDAs and laptop computers, drive to work and to events, fly to business meetings and on holidays. But whereas mobility is increasing and peoples geographical horizons are broadening, information sources did not keep up.
- **Editor, March 2003**
German translation of the book "The Essence of Artificial Intelligence" by Alison Cawsey.
- **Research Assistant, Virtual Reality Lab, RWTH Aachen, Germany, February 1999 - August 2002**
Besides developing and designing several presentations for computer trade fairs (e.g. CeBIT Hannover) the work mainly concentrated on developing a virtual reality software that supported multiple projectors and operated on a distributed system (Linux Cluster).
- **Software Developer and System Administrator, HEWATT Corp., Stolberg, Germany, 1995 - 2003**
The software projects were mainly focused on embedded systems and the simulation of prototypes (e.g., blood pressure meter). The duties as a system administrator included the installation and support of Windows/Linux machines and networking (SAMBA).

Software

- During my PhD. studies I developed several software products that allow to solve hard search problems. Each software employs a distinct and innovative approach to tackle intractable real-world problems. Nearly all software was developed in C/C++. Please consult my web page for more details.

Awards

- **Winner of the international QBF Competition 2006**
Developed software achieved the 1st, 2nd, and 3rd place on the industrial benchmarks (see <http://www.qbflib.org> for more details)

Other Skills

- Computer Languages: C, C++, Python, Java, HTML, PHP, SQL
- Mentoring undergraduate and Master's students
- Research Group Organizer (Cognitive Robotics Group, University of Toronto)
- Reviewer of technical papers for international conferences
- Fluent in English, German, and Dutch. Currently studying Spanish.

References

- Sheila McIlraith, Assistant Professor,
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