Carl Eastlund

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Education

2012	Ph.D. in Computer Science, Northeastern University Thesis title: *Modular Proof Development in ACL2* Adviser: Matthias Felleisen
2005	M.S. in Computer Science, Northeastern University
2001	B.S. in Computer Science with University Honors, Carnegie Mellon University In-Major GPA: 4.0

Experience

2013	Postdoc, Northeastern University, Boston, MA Continued research related to ACL2 modules and macros. Extended Racket libraries for generic interfaces, dictionary datatypes, and set datatypes.
2003-2012	Research/Teaching Assistant, Northeastern University, Boston, MA Research extending the ACL2 theorem prover with macros from Racket and modules from ML. Developed Dracula, an IDE for automated theorem proving with ACL2, including features for automated testing and graphical programs. Contributed libraries to the Racket language, including tools for custom runtime software contracts.
2005	Intern, Sun Microsystems, Burlington, MA Developed the prototype interpreter for the Fortress language, written in OCaml.
2004	Intern, IBM, Austin, TX Designed and implemented type system for ML-based hardware description language.
2003	Software Engineer, Lockheed Martin, Gaithersburg, MD Worked on software to transfer operations between GPS satellite ground control stations.
2001-2002	Software Engineer, Green Hills Software, Santa Barbara, CA Implemented drop-in replacement compatibility with ARM vendor assembler.

Skills

Languages:	Racket / Scheme / Lisp, OCaml / SML, Java, C/C++, Perl, Bash, SQL
Topics:	functional programming, algorithms and data structures, software design

Professional Activities

2013	International Workshop on the ACL2 Theorem Prover and its Applications, Program Committee

Teaching

2012-2013	Instructor, Northeastern University, Algorithms and Data
2008	Instructor, Teaching Software Correctness Workshop, University of Oklahoma
2008	Teaching Assistant, TeachScheme!/ReachJava Workshop, Northeastern University
2003-2007	Teaching Assistant, Northeastern University, Fundamentals of Computer Science I/II

Publications and References

Available upon request.