

MATHIAS GUENTER RICKEN

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EDUCATION

Rice University, Houston, TX

Ph.D. Studies in Computer Science. GGPA 3.98/4.00

Research Area: Programming Languages

Advisor: Dr. Robert Cartwright

Rice University, Houston, TX

M.S. in Computer Science October 2007

Rice University, Houston, TX

B.S. in Computer Science May 2004, magna cum laude. GPA 3.89/4.00

Gymnasium an der Hermann-Boese-Strasse, Bremen, Germany

Abitur 1999. Average 1.0/1.0. Ranked 4th in the state of Bremen

Computer skills: C, C++, C#, Java, Promela/SPIN, Perl, PHP, Python, Assembly, Delphi, Scheme, OCaml, UML, HTML, VHDL, ABEL, LabVIEW, MS Office, Adobe PageMaker, Illustrator and Photoshop, Unix, Windows

EXPERIENCE

National Instruments, Austin, TX

R & D Intern, Real-Time and Embedded Systems, May 2003 – August 2003

Modified the LabVIEW Embedded environment to generate multi-threaded C source code for different operating systems and hardware platforms. Supervisor: Andrew Dove

Rice University, Houston, TX

Software Developer, Programming Languages Team, August 2002 – May 2003

Developed the programming environment DrC#. Advisor: Dr. Cartwright

Rice University, Houston, TX

Research Assistant, Computer Graphics, May 2002 – December 2002

Independently researched and implemented texture and geometry synthesis algorithms in computer graphics; developed applications for a haptic input device.

Advisor: Dr. Warren

TEACHING

Rice University, Houston, TX

Instructor, Principles of Object-Oriented Programming II, Fall 2008

Will hold all class lectures and laboratory tutorials, modify and design the curriculum, supervise teaching assistants, grade exams and homework assignments, and assign final grades. Co-Instructor: Dr. Wong

Rice University, Houston, TX

Teaching Assistant, Production Programming, 2 semesters

Maintained website and solutions, helped students with Ant and Subversion, administered SourceForge accounts. Advisors: Dr. Cartwright

Rice University, Houston, TX

Teaching Assistant, Programming Languages, 3 semesters

Held several class lectures, consulted undergraduate and graduate students, and graded their exams and homework assignments. Assisted in conversion of lectures and assignments to OCaml. Maintained website and solutions, improved grading scripts. Advisors: Dr. Cartwright and Dr. Taha

Rice University, Houston, TX

Teaching Assistant, Intermediate Programming, 9 semesters

Held several class lectures. Presented weekly tutorials on Unix, Java, design patterns, and tools; consulted college students and graded their exams and homework assignments. Maintained website and grade database. Advisors: Dr. Cox, Dr. Nguyen and Dr. Wong

PUBLICATIONS

“Nifty Assignment: Temperature Calculator – Programming for Change”.

Nguyen, D., and Ricken, M.

Proceedings of the Fifteenth OOPSLA Educators’ Symposium. ACM, 2006.

“Design Patterns for Parsing”.

Nguyen, D., Ricken, M., and Wong, S.

Proceedings of the Thirty-Sixth SIGCSE Technical Symposium on Computer Science Education. ACM, 2005.

“Nifty Assignment: Marine Biology Simulation”.

Cheng, E., Nguyen, D., Ricken, M., and Wong, S.

Proceedings of the Thirteenth OOPSLA Educators’ Symposium. ACM, 2004.

“Nifty Assignment: Abstract Factories and the Shape Calculator”.

Cheng, E., Nguyen, D., Ricken, M., and Wong, S.

Proceedings of the Thirteenth OOPSLA Educators’ Symposium. ACM, 2004.

“Design Patterns for Marine Biology Simulation”.

Nguyen, D., Ricken, M., and Wong, S.

Proceedings of the Thirty-Fifth SIGCSE Technical Symposium on Computer Science Education. ACM, 2004.

PRESENTATIONS **“Object-Oriented Design Festival” Workshop.**
Cheng, E., Nguyen, D., Ricken, M., and Wong, S.
Thirty-Seventh SIGCSE Technical Symposium on Computer Science Education.
ACM, 2006.

HONORS Sid Richardson Fellow
Rice Undergraduate Scholar
Tau Beta Pi Engineering Honor Society (Officer 2003 – 2004)
Louis J. Walsh Merit Scholarship in Engineering 2001 – 2004
Rice University President’s Honor Roll Fall 2000, 2002, 2003; Spring 2002, 2003

ACTIVITIES Rice Ambassador, Corps of Special Aides to the Governor of Texas (2001 – 2004)
Rice Computer Science Club (Vice President, 2003 – 2004)
Rice Engineering Society Council (Secretary/Treasurer, 2003 – 2004)
Rice Wine Society (Secretary/Treasurer, 2004 – 2006)

REFERENCES Available upon request.