

Donald E. Yessick

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Experience

Assistant Professor, Coastal Carolina University, 2005-2010

- Microsoft Office applications
- Computer networks and data communications
- Robotics
- Operating systems
- Introductory, intermediate, and second programming languages
- Systems programming
- Compiler design
- Data structures and algorithms
- Computer organization and assembly programming

Instructor, The University of Alabama, 1997-2004

- Systems programming, Unix, and Microsoft Foundation Classes (MFC)
- Introductory, intermediate, and second programming languages
- Data structures and algorithms

Instructor, Stillman College, 2000-2001

- Introductory and intermediate programming
- Computer architecture and assembly programming

Research Assistant, The University of Alabama, 1996-1999

- Developed car crash analysis and scholarship database systems using Access, Oracle, and C++

Trainer and Systems Programmer, Wood Lane Inc., 1994-1996

- Developed database systems and user interfaces for inventory, purchasing, and invoicing

Programmer Analyst, Blue Cross and Blue Shield of Alabama, 1990-1994

- Developed and maintained inter-plan reporting, payroll, and national accounts systems

Education

Ph.D. in Computer Science, The University of Alabama
M.S. in Computer Science, The University of Alabama
B.S. in Computer Science, Birmingham-Southern College

Bibliography

Rapid Prototyping of Domain-Specific Languages: Applying the Null-Object Pattern in an Object-Oriented Compiler Compiler, doctoral dissertation, 2004

“Reinventing the Wheel, or Not Yet Another Compiler Compiler Compiler,” ACM, 2002

“Removable Bounds Check Analysis in a JIT Compiler,” ACM, 2001

Honors, Community Service, and Extracurricular Activities

- Mentor, FIRST Robotics, Academy of Art Science and Technology, 2005-2010
- Faculty Advisor, Numbers and Bytes, CCU’s student chapter of ACM, 2005-2006
- Outstanding ACM Graduate, The University of Alabama, 2003
- Instructor, Freedom Chess Academy, 2001-2002
- President, University of Alabama Chess Club, 2000
- Tournament Director, Tuscaloosa Chess Club, 2000
- President, Tuscaloosa Chess Club, 1999
- President, Upsilon Pi Epsilon, Beta Chapter, The University of Alabama, 1999; inducted 1998
- State Champion, Alabama Chess Federation, Class E, 1998
- Coach, Blue Cross Diamonds (softball), 1991-1994
- Advisor, Blue Cross and Blue Shield Explorer Post, 1991-1994

Research Interests

- Source-to-source development of domain-specific languages
- Visual data structures
- Robotics
- Human-computer interface design
- Complexity of modern systems