

# Andrew W. DeOrio

## Curriculum Vitae

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### Contact

awdeorio@umich.edu  
andrewdeorio.com

### Education

2008 – present                      **University of Michigan**                      Ann Arbor, MI

*Ph.D. Computer Science and Engineering*

- GPA 8.0/9.0 [4.0/4.0]
- Candidate status, expect to graduate May 2011
- Research in hardware verification and reliable system design
- Advised by Professor Valeria Bertacco

2006 – 2008                      **University of Michigan**                      Ann Arbor, MI

*Master of Science and Engineering - Electrical Engineering*

- GPA 8.3/9.0 [4.1/4.0]
- Coursework in computer architecture and VLSI design

2003 – 2006                      **University of Michigan**                      Ann Arbor, MI

*Bachelor of Science and Engineering - Electrical Engineering, Magna Cum Laude*

- GPA: 3.7/4.0

### Publications

Andrew Deorio and Valeria Bertacco, “Human Computing for EDA”, Design Automation Conference (DAC), 2009.

Debapriya Chatterjee, Andrew DeOrio and Valeria Bertacco, “Event-Driven Gate-Level Simulation with GP-GPUs”, Design Automation Conference (DAC), 2009.

David Fick, Andrew DeOrio, Valeria Bertacco, Dennis Sylvester and David Blaauw, “Vicus: A Reliable Network for Unreliable Silicon”, Design Automation Conference (DAC), 2009.

Debapriya Chatterjee, Andrew DeOrio and Valeria Bertacco, “GCS: High-Performance Gate-Level Simulation with GP-GPUs”, Design Automation and Test in Europe (DATE), Nice, France, April 2009.

David Fick, Andrew DeOrio, Valeria Bertacco, Dennis Sylvester and David Blaauw, “A Highly Resilient Routing Algorithm for Fault-Tolerant NoCs”, Design Automation and Test in Europe (DATE), Nice, France, April 2009.



2004 - 2006 (summers) **VI Engineering, Inc** Farmington Hills, MI  
*Engineering Summer Intern*

- LabVIEW programming
- Designed, debugged and repaired custom electronic hardware
- Designed and implemented automated motion control systems

2005 - 2006 **University of Michigan MechEng Dept.** Ann Arbor, MI  
*Research Assistant, Reconfigurable Manufacturing Systems Lab*

- LabVIEW programming
- High precision optical measurements
- Designed and implemented automated motion control systems

2002 - 2003 **DeOrio and Waisanen Construction** Farmington, MI  
*Contractor*

- Self-started own construction business with co-founder
- Designed, proposed and executed \$5–15k projects

## **Awards**

- DAC Young Student Support Award, June 2008
- Dean's List - Fall 2006, Winter 2006, Fall 2005, Winter 2004, Fall 2003
- University Honors - Fall 2004, Winter 2004, Fall 2003
- "Most Outstanding Member" HKN engineering honor society, 2006
- "Most Ridiculous Member" HKN engineering honor society, 2005

## **Languages**

- Native English speaker.
- Proficient in Spanish, spent the summer of 2003 studying in Cuernavaca, Mexico.

## **Extracurricular activities**

- HKN Engineering Honor Society, member, 2005-present
- IEEE, member, 2006-present
- UM Argentine Tango Club, board member, webmaster, 2006-2008
- Designed and built a home automation system. Developed software and hardware to control room's lights and appliances from a computer.