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Education

- 2007- **PhD Student in Computer Science**
University of Pennsylvania, Philadelphia, PA
Advisor: Milo Martin
- 2007 **Masters of Science & Engineering**
Indian Institute of Science, Bangalore, India
Advisor: R Govindarajan
- 2005 **Bachelors of Engineering in Computer Engineering**
National Institute of Technology, Karnataka, Surathkal
GPA: 4.0, **University Gold Medalist**

Positions Held

- 2007- **Graduate Research Assistant**
Computer and Information Science Department, University of Pennsylvania,
Philadelphia, PA
- 2009 **Research Intern**
Software Reliability Research Group, Microsoft Research, Redmond, WA

Honors and Awards

- 2010 Publication selected for IEEE MICRO Top Picks:
iCFP: Tolerating All-Level Cache Misses in In-Order Processors
- 2005-2007 Philips Research Fellowship by Philips and IISc
- 2001-2005 University Gold Medal by NITK/KREC Surathkal

Refereed Publications

CETS: Compiler Enforced Temporal Safety for C

Santosh Nagarakatte, Jianzhou Zhao, Milo M.K. Martin, and Steve Zdancewic.
9th International Symposium on Memory Management (ISMM), June., 2010.

A Randomized Scheduler with Probabilistic Guarantees of Finding Bugs

Sebastian Burckhardt, Pravesh Kothari, Madan Musuvathi and Santosh Nagarakatte.
15th International Conference on Architectural Support for Programming Languages and Operating Systems (ASPLOS), Mar., 2010.

iCFP: Tolerating All-Level Cache Misses in In-Order Processors

Andrew Hilton, Santosh Nagarakatte, and Amir Roth.

IEEE MICRO's Top Picks of Architecture Conferences of 2009 (Micro Top Picks), Jan-Feb 2010.

SoftBound: Highly Compatible and Complete Spatial Memory Safety for C
Santosh Nagarakatte, Jianzhou Zhao, Milo M K Martin, and Steve Zdancewic.
ACM SIGPLAN Conference on Programming Language Design and Implementation (PLDI),
Jun., 2009.

iCFP: Tolerating All-Level Cache Misses in In-Order Processors
Andrew Hilton, Santosh Nagarakatte and Amir Roth.
15th International Symposium on High-Performance Computer Architecture (HPCA), Feb., 2009.

*Register Allocation and Optimal Spill Code Scheduling in Software Pipelined Loops using 0-1
Integer Linear Programming Formulation*
Santosh G Nagarakatte and R Govindarajan.
16th International Conference on Compiler Construction (CC), March, 2007.

Teaching Experience

Spring 2009 TA for Milo Martin's CSE371
Fall 2008 TA for Milo Martin's CIS501