Calvin Deutschbein

✉ cd@cs.unc.com | ⌂ cs.unc.edu/~cd | ○ cd-public

Education

University of North Carolina at Chapel Hill   *Chapel Hill, NC*
DOCTOR OF PHILOSOPHY IN COMPUTER SCIENCE   *projected Spring 2021*

University of North Carolina at Chapel Hill   *Chapel Hill, NC*
MASTER OF SCIENCE IN COMPUTER SCIENCE   *2017*

University of Chicago   *Chicago, IL*
BACHELOR OF SCIENCE IN COMPUTER SCIENCE   *2015*

University of Chicago   *Chicago, IL*
BACHELOR OF ARTS IN MATHEMATICS   *2015*

Publications

Mining Security Critical Linear Temporal Logic Specifications for Processors   *MTV 2018*
C. Deutschbein, C. Sturton

End-to-End Automated Exploit Generation for Validating the Security of Processor Designs   *Micro 2018*
R. Zhang, C. Deutschbein, P. Huang, C. Sturton

Multi-core Cyclic Executives for Safety-Critical Systems   *Setta 2017*
C. Deutschbein, T. Fleming, A. Burns, S. Baruah

Preemptive Uniprocessor EDF Schedulability Analysis with Preemption Costs Considered   *RTSS 2016*
C. Deutschbein, S. Baruah

Performance and energy limits of a processor-integrated FFT accelerator   *HPEC 2014*
T. Thanh-Hoang, A. Shambayati, C. Deutschbein, H. Hoffmann, A. A. Chien

Experience

University of North Carolina at Chapel Hill   *Chapel Hill, NC*
TEACHING ASSISTANT AND RESEARCH ASSISTANT   *2015 - present*
- Instructed and developed new curriculum for 2018 Summer Session of COMP 116: Scientific Computing
- Teaching assistant for 2017 Fall and 2018 Spring COMP 410: Data Structures
- Completed coursework and prepared multiple publications (see *Publications*)

Lockheed Martin   *Littleton, CO*
SOFTWARE ENGINEER (INTERN INTO FULL-TIME)   *2014 - 2015*
- Validate real-time operating system for Orion spacecraft

Univesity of Chicago Computer Science Department   *Chicago, IL*
INSTRUCTIONAL STAFF   *2013 - 2015*
- Graded programming assignments and test and held online office hours.
- Developed chiTCP as part of the chi instructional projects framework for UChicago

Univesity of Chicago Large Scale Systems Group   *Chicago, IL*
UNDERGRADUATE RESEARCHER   *2012 - 2015*
- Prepared a publication on heterogenous processing (see *Publications*)

Seagate Technology   *Longmont, CO*
FIRMWARE ENGINEER INTERN   *2012*
- Tested experimental high density firmware for hard disk drives.

Twin Peaks Robotics   *Longmont, CO*

- Assembled radio robotics control chipboards.