

Nicholas D. Lorusso

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Objective:

To obtain an industrial internship for June – September 2008 in which I can apply my skills in software engineering and scientific research.

Education:

University of California, Santa Barbara, Estimated Graduation: September 2011

Doctor of Philosophy in Computer Science

National Science Foundation Graduate Research Fellow, Fall 2008

The Ohio State University, Graduated: June 2006

Bachelor of Science in Computer Science and Engineering with Distinction, Magna Cum Laude

Professional Skills:

- Organized, efficient problem solver with good communication skills
- Proficient in C/C++, Perl, Matlab
- Knowledgeable in parallel computing (MPI), Java, C#, Lisp, Visual Basic, LabVIEW
- Experience with development in Linux
- Work well both independently and in team environments

Work Experience:

UC Santa Barbara, Santa Barbara, California

Researcher (September 2006 – present)

- Developing methods for learning from uncertainty in data (current)
- Improved techniques for probabilistic segmentation and analysis of retinal neuronal images
- Investigated a gene duplication event in a family of 7-transmembrane proteins (opsins)

National Instruments, Austin, Texas

Software Engineer Intern (March 2005 - June 2005)

- Developed debugging features for the ROBOLAB programming environment using LabVIEW
- Created various utilities to aid in debugging the ROBOLAB compiler

American Electric Power, Columbus, Ohio

IT Developer Intern (June 2004 - September 2004)

- Worked with a small team responsible for developing and managing financial applications, chiefly using Excel VBA, an Oracle database backend, and PL/SQL
- Redesigned and re-implemented the core corporate budgeting application to improve performance

Intel, Shrewsbury, Massachusetts

Validation Engineer Intern (May 2003 - December 2003)

- Collaborated with a team of engineers to further develop software that facilitates processor validation
- Applied knowledge of C++ and Perl to develop major features
- Automated process of identifying erroneous processor instructions

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The Ohio State University, Department of Aviation, Columbus, Ohio

IT Assistant (part time, March 2004 - August 2006)

- Served as the help desk for all technical issues, supporting 10 members of faculty and staff
- Maintained small in-office network including operating system installations and hardware troubleshooting
- Coordinated and implemented an automated in-office data backup system

Teaching Experience:

UC Santa Barbara, Santa Barbara, California

Teaching Assistant (September 2006 - present)

- Computer Organization (CS 30, Spring 2008)
- Parallel Computing (CS 140, Winter 2008)
- Project Programming (CS 50, Spring 2007)
- Machine Learning (CS 165B, Winter 2007)
- Introduction to Artificial Intelligence (CS 165A, Fall 2006)

Honors & Activities:

- Mentoring: EPSEM (Summer 2007) and ITR Bioimaging Summer Mentor (Summer 2007)
- Senior Honors undergraduate research project: Software Engineering and Design of Business PDA Applications
- Tau Beta Pi, National Engineering Honorary (2005-2006)
- Golden Key, Webmaster (2005)
- Institute of Electrical and Electronics Engineers (IEEE), Treasurer (2002)
- Student senator for the college of engineering (2002)

Publications:

- Nicholas Larusso, Brian Ruttenberg, Ambuj Singh, “Probabilistic Analysis of Retinal Neuron Morphology”, in *Workshop on Bio-Image Informatics: Biological Imaging, Computer Vision and Data Mining*, 2008.
- Nicholas Larusso, Brian Ruttenberg, Todd Oakley, and Ambuj Singh, “Type-II Opsins: Evolutionary origin by internal domain duplication?” *Journal of Molecular Evolution*, 2008. DOI: 10.1007/s00239-008-9076-6.

Posters:

- Workshop on Bio-Image Informatics: Biological Imaging, Computer Vision and Data Mining (Winter 2008). “Probabilistic Analysis of Ganglion Cell Morphology”
- UCSB Graduate Workshop on Computing (Fall 2007): “Probabilistic Segmentation and Analysis of Retinal Neurons”

References available upon request