HOME ADDRESS
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NORMAN H. ADAMS

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WORK ADDRESS
2260 Hayward, 3856 CSE
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OBJECTIVE

Seeking a research and development position in signal processing for applications in sound, image and video processing, and information retrieval and display.

EDUCATION

University of Michigan   Ann Arbor, MI
Ph.D. in Electrical Engineering: Systems, Dissertation: Fall 2007
A Model of Head-Related Transfer Functions based on a State-Space Analysis
M.A. candidate in Performing Arts Technology
GPA: 8.1 (A=8.0)

- Signal Processing: Source Coding
- 3D Sound and Binaural Display
- Music Information Retrieval
- Time-Frequency Analysis & Visualization

University of Virginia   Charlottesville, VA
M.S. in Electrical Engineering   Summer 2001
B.S. dual-major in EE and Music   Spring 2000
GPA: 3.8 (A=4.0)

- Communications: Channel Coding
- Analog & Digital Circuit Design
- Data Structures & Algorithms
- Sound Synthesis, Composition & Sonification

EXPERIENCE

Quantum Signal, LLC   Ann Arbor, MI
Signal and Image Processing Engineer   Part-time, 2006 to present
- Statistical individualization of camouflage uniforms for forensic investigations
- Auditory display for robot teleoperation interface

U.Mich. & U.Va.   Ann Arbor, MI & Charlottesville, VA
Student Instructor   1999 to 2006
- Lab instruction and grading for signal processing and communications (EECS Dept.)
- Lab instruction and grading for interdisciplinary voice course (Kinesiology Dept.)

The MathWorks, Inc.   Natick, MA
Programmer   Summers, 1998 to 2000
- Developed software for MATLAB's Communications Toolbox and Blockset
- Wrote Galois field functions, error counting utilities, and support documentation

McIntire Dept. of Music, U.Va.   Charlottesville, VA
Concert Recorder   Part-time, 1996 to 2000

MEA Consulting Engineers   Waltham, MA
Draftsman   Summers, 1995 to 1997
- CAD and manual drafting of HVAC, electrical and sprinkler systems

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COMPUTER SKILLS

- Languages: M, C++, Assembly, LaTeX, HTML   • OS: Windows, Mac, UNIX
- Applications: MATLAB, CSound, Max/MSP/PD, Pro Tools, Abode CS, AutoCAD

AWARDS & SOCIETIES

- Fellowships: Rackham Pre-Doctoral, AFCEA, CARAT, GAANN, Dean's (U.Va.)
- EECS Dept. Student Instructor Award   • Societies: IEEE, ASA, AES, HKN, ΟΞ

ACTIVITIES

- WCBN, FM: DJ, engineer and Prod. Director at student-run radio station '02-05
- Piano and accordion   • Electronics hobbyist   • Conversational Russian

- References are available upon request, as well as a CV with publications.