

Nathan P. Harada

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PROFESSIONAL EXPERIENCE

iZotope, Inc

DSP Intern

Cambridge, MA

May 2013 – August 2013

- Researched time and spectral pitch detection algorithms for audio pitch correction software.
- Implemented and evaluated pitch algorithm candidates and realized 10% improvement from current method.
- Developed analysis and visualization frameworks for future algorithm improvements.

Tufts University Lilly Music Library (Granoff Music Building)

Student Librarian

Medford, MA

August 2011 - present

- Term-time employment during school year (8 hours per week).
- Assist patrons and faculty members to assure satisfaction in the use of library resources.

Digital Design Corporation

Software Engineer

Arlington Heights, IL

Summer 2010, 2011, 2012

- Part-time employment during summer and school year at a privately-held provider of FPGA systems and products for military, medical, industrial and automotive industries.
- Designed and programmed Windows control software suite with a small team of engineers.
- Developed test equipment, firmware, and various I2C sensors for intercoms with other hardware engineers.
- Researched and designed an active muffler system for industrial blowers with a cross-functional team.

Digital Design Corporation

Summer Intern - Software Engineer

Arlington Heights, IL

Summer 2008, 2009

- Summer Intern and part-time employment during school year.
- Tested network loudspeakers and control software. Developed test applications for Windows in .NET and Python.

The Burbz Newspaper

Website Administrator

Lake Zurich, IL

February 2009 – June 2009

- Part-time employment during high school. Managed all web-based assets for “The Burbz”, a local newspaper.
- Wrote software scripts to consolidate calendars for all nearby towns.

EDUCATION

Tufts University

Medford, MA

- Bachelor of Science in Electrical Engineering anticipated in May 2014 | Minor in Music Engineering
- Cumulative GPA: 3.76/4.00
- Dean’s List each term, Eta Kappa Nu member

Lake Zurich High School

Lake Zurich, IL

- Graduated June 2010 | Highest Honors in every term | GPA: 3.7/4.0
- On exec board of National Honor Society, captain of Swim team, head theater electrician, jazz band, pit orchestra

TUFTS ACTIVITIES

Tufts University Concert Board

2010 – Present

- Leader of organization that promotes small and large concert performances on campus.
- Booked acts for Spring Fling and Cage Rage – large, campus-wide concerts.
- Managed student volunteers and assisted both talent and production personnel.

Hip-hop for Social Change

2010 - 2011

- Managed and organized two fundraising hip-hop festivals. Events included performances featuring international and local artists and panel discussions on the role of hip hop in sparking social and political changes.

Tufts Men’s Ultimate Frisbee Team

2010 - Present

SKILLS

- Software: Windows, Linux, Microsoft Office, Matlab, SciPy/NumPy
- Languages: C, C++, Python, C#, C++/CLI, HTML, JavaScript, Haskell, Assembly
- Skills: Microcontrollers, Low level programming, Analog design, Machine Learning, Signal Processing, ANC