

# James A. Rising

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## PROFESSIONAL EMPLOYMENT

- July 2007 – Present – **Harmonix Music** C++ and Matlab development of speech analysis algorithms on Xbox 360, PS3, and PS2, and associated utilities.
- October 2005 – Present – **SalientStills** C++ (DirectShow) and Java (JNI, AWT) audio and video handling and associated UIs.
- August 2005 – Present – **SoundSpectrum** PHP/MySQL and Perl contract web development and maintenance. Work includes building automated VeriSign and PayPal shopping and payment systems, a community-moderated plugin sharing subsite, and maintenance utilities.
- Sep 2005 – Jan 2005 – **Wave Arts, Inc.** Contract C++ development of a conference VoIP utility, 3D audio, and audio compression codecs.
- Sep 2005 – Jan 2005 – **NormaTec, Inc.** Contract Microsoft Access development and MySQL database administering for medical records, finances, and inventory.
- Aug 2003 – Aug 2005 – **Franklin W. Olin College** Electrical and Computer Engineering instructor, assisting classes in Discrete Signal Processing, Software Using Images and Sound, Introductory Electronics, Engineering Systems. Research in semi-autonomous navigation and curriculum design.
- Summer 2003 – **iNeed.com** Programming full-time in Java, using JSPs, Jakarta Struts, and MySQL.
- Summer 2002 – **Wave Arts, Inc.** Programmed full-time, in C, C++, and assembly, developing user-interfaces, signal processing functions, and patent research.
- Summer 2001 – **Wave Arts, Inc.** Programmed full-time, in C, C++, and assembly. Developed optimized vector library for sound manipulation, including server-client options.
- Summer 2000 – **EMC<sup>2</sup>, Inc.** Programmed full-time, mostly in Visual C++ on products to archive, analyze, and display hardware configuration and databased performance data.
- Summer 1999 – **Terascape Software** Programmed full-time, on various projects, including work in InstallShield, Unix scripts, Visual Basic, Java, Perl, Microsoft Access, and Oracle.
- July 1997 - Jan 1999 – **D<sub>x</sub>CG, Inc.** Designed report program and translated SAS code for statistical analysis of cost predictions for Medicare.

## EDUCATION

- 1999 – 2003 – **Massachusetts Institute of Technology** Graduated in 2003 with a Bachelor degree in Philosophy. Considerable course work in computer science, mathematics, and engineering.

## COMPUTER EXPERIENCE

### Programming Languages:

Considerable experience in C, C++, Java, Scheme, Assembly, Hypercard, Matlab, SQL, PHP, Ruby, and XHTML  
Limited experience and work in Basic (including Visual Basic), Perl, Python, and SAS  
Familiarity with many more.

Experienced with PC, Macintosh, and Unix/Linux operating systems, Apache, Drupal, CVS, and Subversion.

## ADDITIONAL ACTIVITIES AND PROJECTS

- June 2006 – Present – **Travelers Blog Community** Creating a Friendster-style community designed for travelers, built around a Google Maps-enabled blog (PHP and MySQL).
- Summer 2000 – **Face Recognition UROP** Studied algorithms for texture recognition, clustering algorithms, and wavelets, and implemented a set of these for the identification of faces.
- 1999 – Present – **Experimental Study Group (ESG)** Coordinated over a dozen seminars, official classes, and activities on subjects ranging from future physics to literature readings at MIT.

## REFERENCES

**Jeff Hunter** Head of Engineering at SalientStills

Contact at: jjhunter@mindspring.com, 617-338-1441 x205

**Anton Shevchenko** Head of Operations and Engineering at SoundSpectrum, Inc.

Contact at: anton@soundspectrum.com, 617-290-0515

**Eran Egozy** Co-founder of Harmonix Music Systems, Inc.

Contact at: ee@harmonixmusic.com

Source code examples and curriculum vitae available upon request.