

Updated Jan 2016

## Henry Heikkinen

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### Software Developer for Digital Media Products

#### SKILLS/TECHNOLOGIES

Development Environments - C++, C, JAVA, Python, Perl, TCL, UNIX shells, FORTRAN  
Development Tools - XCode, Visual Studio, GIT, Subversion, JIRA Agile, FishEye, Confluence  
Operating Systems - Mac OS X, Windows, Linux, Embedded OS, Solaris, AIX, HP-UX  
Audio - ASIO, VST, Audio Units, RTAS, DirectX, MP3, WMA, plugins, DAWs, Pro Audio  
Web Development – HTML, JavaScript, PHP, DBI, authorization, security, COM, CSS, MySQL  
GUI Development - JUCE, MFC, ActiveX, TK, visual TCL, X server and client internals  
Excellent communication, documentation, management and project planning skills

#### EDUCATION

**Master of Science**, Electrical Engineering and Computer Science - University of California, Berkeley  
**Bachelor of Science**, Electrical Engineering - University of Maryland, College Park

#### PROFESSIONAL EXPERIENCE

**Senior Software Engineer**, 2004-present, **Senior Software Engineer - Consultant** 2002-2004

**Universal Audio**, Santa Cruz, California

##### Development of Professional Audio Hardware and Software Products

- Plug-In Software Application Development Lead -VST, AU, RTAS audio plugins for Mac and Windows using C++
- 2011, 2012, and 2013 TEC Awards for Studer A800, Ampex ATR-102 Tape Recorder, LA-2A Plug-Ins
- Helped establish third party developer program using SDK
- Launched uaudio.com web store, implemented with PHP and MySQL
- Developed product authorization security services
- Key member of a Grammy award winning audio product Engineering team

**Senior Software Consulting Engineer**, 2002

**Audiomill**, Santa Cruz, California – acquired by **Real Networks**

##### Development and Management of Internet Audio Product

- Internet Radio web product development using Perl, PHP, JavaScript and MySQL

**Senior Software Engineer**, 2001-2002

**Arrio Communications**, Santa Cruz, California

##### Developed Standalone Internet Radio Player Product

- Designed and developed playlist interface, setup/update mode, tuning interface
- Developed using Windows Embedded, Windows Media Player and MP3 protocols
- Created Web interface to station database using Perl and MySQL

**Software Engineer**, 1996-2000

**IBM/Tivoli Systems**, Santa Cruz, California 2000 ( now IBM Security Access Manager product)

**DASCOM, Inc.**, Santa Cruz, California 1996-1999

##### Developed Web and Internet Security Products

- Developed Network Security Application Services for Solaris, AIX, HP-UX, Windows
- Developed Graphical User Interface for management of network access control product
- Led Internationalization project for multi-language product support
- Created and extended company development processes
- Used TET framework to manage automated testing

**Senior Technology and Media Engineer**, 1997-present

**Live Funk**, Santa Cruz, California

**Technology Services for Musical Artists**

- Live Audio Recording, Mixing and Mastering.
- Web Development and Digital Media Technology Consulting.

**Technology Consultant**

**Armada Software**, Santa Cruz, California 1995-2010

**The Human Factor**, Santa Cruz, California

**Technology Consulting Services**

- Setup and troubleshooting of advanced TCP/IP and NFS networking configurations
- Developed tools and procedures for management of entire UNIX OS source tree
- Architected dual-server UNIX systems with Sybase used in major retail chain
- Developed automated UNIX Server installation tool using Expect test language

**Software Engineer**, UNIX Distributed Objects and Systems Management Group, 1993-1995

**The Santa Cruz Operation**, Santa Cruz, California

- Developed Distributed System Management software with TCL-based GUI.
- Taught Windows MFC programming course sessions
- Automated source and build management, software integration and productization
- Created, administered, and developed with the department source, build and Web servers
- Led Configuration Management tool pilot program

**Technical Support Engineer**, UNIX Operating System and Networking, 1991-1993

**The Santa Cruz Operation**, Santa Cruz, California

- Provided UNIX Internals, Development System, and Device Drivers expertise for engineers
- Led SCO technical relationship with IBM hardware developers
- Developed and productized support supplements and productivity tools

**Simulation Programmer**, Plasma Theory and Simulation Group, 1989-1990

**Electronics Research Laboratory**, University of California, Berkeley

- Developed Graphical interface for simulations on Windows PC clients and Cray servers
- Created and taught course for physicists in computer modeling techniques
- Technical Presentations at software developers and physics conferences
- Trained and supervised programmers new to the group

**Simulation Programmer**, Charged Particle Beam Group, 1986-1989

**Plasma And Fusion Energy Studies Laboratory**, University of Maryland, College Park

- Developed and automated 3 Dimensional physics simulation codes on Cray Supercomputers
- Provided tools training and complete documentation for physics researchers

**PERSONAL INTERESTS**

- Recording and mastering live music performances.
- Graduate of Iyengar Yoga Institute of San Francisco 500 Hour Advanced Studies program
- Enjoy running, weightlifting, cycling and the outdoors

**Technical Publications List:**

**LinkedIn:**

<http://www.livefunk.com/pro/publications.html>

<http://www.linkedin.com/in/henryheikkinen>

References available upon request