

Updated Oct 2022

Henry Heikkinen

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Senior Software Engineer

EDUCATION

Master of Science, [University of California, Berkeley](#), Electrical Engineering and Computer Science

Bachelor of Science, [University of Maryland, College Park](#), Electrical Engineering

PROFESSIONAL EXPERIENCE

Software Engineering Manager, 2019-present

Senior Software Engineer, 2016-2019

[University of California, Santa Cruz](#), Santa Cruz, California

Development of Custom Web Applications for Higher Education

- Created Web solutions with PHP/Laravel, JavaScript/Vue and MySQL hosted on Linux
- Project management for technology solutions in higher education
- Develop single page applications with emphasis on UX, Security, Accessibility, Testing

Senior Audio Software Engineer, 2007-2016

Director of Information Technology, 2004-2007

Technical Consultant, 2002-2004

[Universal Audio](#), Santa Cruz, California

Development of Professional Audio Hardware and Software Products

- Launched uaudio.com web store using PHP, MySQL on Linux
- Supervised IT Managers and Technology Consultants
- Architected product authorization security services
- Established third-party developer program using new SDK
- Developed Audio Systems and Plug-Ins using C++
- Software Application Development Lead for Award-Winning Audio Products

Senior Software Engineer, 2001-2002

Arrio Communications, Santa Cruz, California

Developed Standalone Internet Radio Tuner Product

- Created radio playlist interface, setup/config UI, tuning interface
- Developed Web interface to station database using Perl and MySQL using Linux OS

Senior Software Engineer, 1996-2000

[IBM/Tivoli](#), Santa Cruz, California

DASCOM, Inc., Santa Cruz, California 1996-1999 (acquired by IBM)
Developed Web and Network Security Management Products

- Developed Graphical User Interface for management of product
- Established company development processes including automated testing
- Led User Interface Internationalization project

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

Systems Software Consultant, 1995-2011
[The Armada Group](#), Santa Cruz, California

- Designed IT consulting company website, set up procedures and internal tools
- Consulting projects for IT, systems, web, tools and test automation

UNIX Operating System Software Engineer, Distributed Objects and Systems Management, 1993-1995
[The Santa Cruz Operation](#), Santa Cruz, California
UNIX on Intel Operating System Product

- Developed system management software with TCL-based GUI
- Automated builds, integration, and productization

UNIX Systems Support Engineer, UNIX Operating System and Networking, 1991-1993
[The Santa Cruz Operation](#), Santa Cruz, California

- Led SCO technical relationship with IBM hardware developers
- Developed and productized support supplements and productivity tools
- Provided UNIX technical expertise for department engineers

Engineering Simulation Programmer, [Plasma Theory and Simulation Group](#), 1989-1990
Electronics Research Laboratory, [University of California, Berkeley](#)

- Developed Graphical User Interface for wave simulations on Windows PC clients and [Cray](#) supercomputers
- Created and taught a course for physicists in 3D software modeling
- Trained and supervised Programmers new to the group

Engineering Simulation Programmer, **Charged Particle Beam Group**, 1986-1989
Plasma And Fusion Energy Studies Laboratory, [University of Maryland, College Park](#)

- Developed 3 dimensional simulation codes on [Cray](#) Supercomputers
- Research and Development of Gyrokystron device for use at SLAC - [Stanford Linear](#)

[Accelerator Center.](#)

- Provided tools and training for Physics Researchers

Personal Interests

- Recording and mastering live music performances since 1997
- Graduate of [Iyengar Yoga Institute of San Francisco](#) 500 hour Advanced Studies program
- Enjoy running, cycling and the outdoors

[Technical Publications List](#) [Music Background](#) [Web Sites](#) [Text Resume](#) [PDF Resume](#)

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