

## **Resume**

### **Rudd H. Canaday**

Portland, Oregon    rudd@rhcssoftware.com

#### **Co-founder and Director of Engineering, RHC Software**

2009 – Present , San Francisco, CA -- rhcssoftware.com & wisesam.com

Invented, designed, and built RHC Software's product: the WiseSAM application.

#### **Co-founder & Director of Engineering, Cima Systems**

2002 – 2007, Pleasanton, CA -- cimasytems.net

Invented, designed, and built the company's first product.

#### **Founder, Rudd, Inc.**

1993 – 2000 New Orleans, LA & San Francisco, CA -- sumtime.com

Designed and built the SumTime practice management software for psychotherapists.

#### **MTS & Department Head, Bell Telephone Laboratories (AT&T)**

1969 – 1989 Murray Hill, NJ

- 1984-1989 - Research Department Head supervising numerous individual researchers. Designed & built (with William Roome) a 3-dimensional file system for UNIX. [1]
- 1979-1984 - Research Department Head in charge of research on a distributed UNIX and distributed database server. (abandoned when AT&T divested the local operating companies)
- 1975-1979 - Development Department Head in charge of 50+ person team of computer scientists developing the first AT&T Unix-based product (white pages system), and developing of the first automated directory assistance system.
- 1973-1975 - Research Department Head & co-architect. Led and participated in the team that designed and built PWB - the Programmer's Workbench [2]
- 1969-1973 - Research Department Head & co-architect. Led and participated in the team that designed and built the first (published) data base server. [3]

#### **Member of Technical Staff, Bell Telephone Laboratories (AT&T)**

1964 – 1969 Murray Hill, NJ

- 1966-1969 - Member of the research department that built Multics and designed UNIX. Co-inventor (with Dennis Ritchie & Ken Thompson) of UNIX file system. [4]
- 1964-1966 - Created and led the 10-person team that designed and built the first time sharing system at Bell Labs (for the NIKE-X project). Designed and implemented the I/O subsystem. NIKE TSS was completed and in production in 1966, before MULTICS.
- 1966-1967 - Lehigh University (while at Bell Labs): Created and taught (two years) a graduate level course on comparative operating systems.

## Education:

### Massachusetts Institute of Technology

1959 - 1964

- Ph.D. Electrical Engineering (Computer Science) 1964  
Thesis: "Two-Dimensional Iterative Logic:" (Theory of logic design) [5]
- M.S. Electrical Engineering (Computer Science) 1961  
Thesis: "The Description of Overlapping Figures" (Artificial Intelligence, under Prof. Marvin Minsky)
- Instructor: Taught several undergraduate level courses and one graduate level course: Active Circuit Theory. This famous (at MIT) course had been taught by Prof. S. J. Mason based on his seminal book. When he decided not to teach it any more, the demand was so great that he asked me to teach it. Students were graduate and post-graduate level.

### Harvard University

1955-1959

- A.B. Cum Laude in Physics, 1959

For more information see [ruddcanaday.com](http://ruddcanaday.com)

## Citations / links:

[1] 3DFS: A time-oriented file server WD Roome - Proceedings of the Winter 1992 USENIX Conference (published after I left Bell Labs).

[2] PWB: Programmers Workbench - <http://en.wikipedia.org/wiki/PWB/UNIX>

[3] A Back-end Computer for Database Management - <http://dl.acm.org/citation.cfm?id=361172>

[4] UNIX Oral History Project - <http://www.princeton.edu/~hos/Mahoney/expotape.htm>

[5] Two-Dimensional Iterative Logic: Rudd H. Canaday - <http://dl.acm.org/citation.cfm?id=1463931>