

Lawrence J. Dickson, PhD, Mathematics

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Profile

I invent, teach and do research in mathematics, physics, and engineering. In the computing world, I create mathematically robust algorithms, and plan and execute their implementation in firmware and software that behaves predictably and understandably. I am a published author, capable of good quality English prose.

Skills

Scientific research and college teaching: mathematics, aerodynamics, engineering, physics

Computer hardware and software design and programming: C kernel code/user code, occam, Fortran, assembly x86/PIC/Transputer, microcode, Perl

Inventions, patents and algorithms: creation, design, analysis

Foreign languages: German, Slovak, Latin (some), Russian (some)

Selected professional experience

- **Head Scientist, Software and Firmware** 10/2000 - 12/2005
Tandberg Data Corporation Poway, CA
InoStor Corporation Poway, CA
Land-5 Corporation San Diego, CA

For these three companies, which are continuations of one another, I was the main intellectual property developer, including patented multiple redundancy RAID software in a system-independent core, and several other patents and patent defenses.

- **Chief Scientist** 5/1995-12/1996
SuperComputing Surfaces Santee, CA

We developed prototypes, including a Ford Motor Company automotive radar, using PC, Transputer and PIC hardware.

- **Chief Scientist** 10/1981-12/1992
Superset Inc San Diego, CA

For this stand-alone bit-slice workstation, I was responsible for advanced graphics algorithms, core graphics software and microcode, and high-speed data transmission software and hardware.

- **Researcher and instructor** 1978-1981
University of Washington Seattle, WA
- **Post-doctoral teaching fellow** 3/1973-1/1975
University of New South Wales Kensington NSW, Australia
- **Instructor, Mathematics** 2/1971-6/1971
Purdue University Lafayette, IN

This included 2D hodograph (transonic aerodynamics) research, pure mathematics research, and teaching of undergraduate and graduate mathematics and undergraduate engineering (statics).

- **Senior engineer (applied mathematics researcher)** 1/1975-7/1978
Boeing Company Renton, WA

Research and computing involved fluid mechanics, digital smooth surface generation, and computational mesh generation.

Education

- Princeton University Princeton, NJ
1968-1971
PhD in mathematics. Adviser: Professor Elias M. Stein. Dissertation: "Some Limit Properties of Poisson Integrals and Holomorphic Functions on Tube Domains."
- Seattle University Seattle, WA
1964-1966, 1967-1968
University of Washington Seattle, WA
Postgraduate math courses 1967-1968
University of Tuebingen Tuebingen, Germany
Credits transferred 1966-1967
Bachelor of Science, summa cum laude, GPA 3.99 out of 4.00, best in graduating class. Several undergraduate awards including National Science Foundation fellowship.

A list of my publications and other experience is available upon request.