

## Dr.-Ing. Robert Laurence Baber

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Born on 1937 December 11 in Los Angeles, California, U.S.A.

Citizenship: German

Languages: fluent in English, Mathematics and German

University degrees:

Massachusetts Institute of Technology, U.S.A.:

Bachelor of Science and Master of Science, electrical engineering, 1959

Master of Science, industrial management, 1962

Technische Hochschule Darmstadt (now Technische Universität Darmstadt):

Doktor-Ingenieur, Informatik, 1994.

### Overview of my professional experience

2005 July – present: retired

2003 July – 2005 June: Senior Researcher, Software Quality Research Laboratory (SQRL), University of Limerick, Limerick, Ireland.

2000 Jan. – 2003 June: Professor, Department of Computing and Software, McMaster University, Hamilton, Ontario, Canada. Since my retirement at the end of 2003 June: Professor Emeritus.

1996 Feb. – 1999 Dec.: Visiting professor, Department of Computer Science, University of the Witwatersrand, Johannesburg, South Africa.

1975 April – 1996 Jan.: self employed management consultant, Bad Homburg, Germany. 1988-1996 external lecturer (Lehrbeauftragter) in the Computer Science Department (Fachbereich Informatik), Johann Wolfgang Goethe-University, Frankfurt/Main.

1970 April – 1975 March: Senior Consultant, Harbridge House Europe, Frankfurt/Main, Germany, management consulting.

1966 March – 1970 March: Consultant und Senior Consultant, Diebold Europe S.A., Frankfurt/Main, Germany, EDP consulting.

1964 March – 1966 March: Control Data Corporation, Minneapolis, Minnesota, U.S.A. und Frankfurt/Main, Germany, technical sales support.

1962 March – 1964 March: U.S. Army Signal Corps, Ft. Gordon, Georgia; Washington, D.C. and Ft. Ritchie, Maryland, U.S.A., military service as an officer, software maintenance and development.

## **Books**

*Software Reflected: The Socially Responsible Programming of Our Computers*, North-Holland 1982, German translation: Springer-Verlag 1986, Polish translation: WNT 1989

*The Spine of Software: Designing Provably Correct Software — Theory and Practice*, Wiley 1987

*Error-free Software: Know-how and Know-why of Program Correctness*, German original: Oldenbourg 1990, English translation: Wiley 1991

*Praktische Anwendbarkeit mathematisch rigoroser Methoden zum Sicherstellen der Programmkorrektheit*, Walter de Gruyter, Berlin, 1995

*The Language of Mathematics: Utilizing Math in Practice*, Wiley 2011

*Mathematically Rigorous Software Design*, an electronic text book privately published on the Internet and revised from time to time.

*Translating English to Mathematics*, an electronic text book privately published on the Internet and revised from time to time.

## **Seminar**

I planned and developed a seminar on the *Design of Error Free Software* in 1985 and have instructed it in German and in English in several countries.