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Military engineering (U. S. Military Academy, B.S., 1948). Joined IBM in 1954. Has had a variety of technical, managerial, and consulting assignments in applied science and development, with emphasis on defense and scientific systems.

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Mathematics and programming. Has been concerned with the writing of scientific and commercial application programs since joining IBM in 1959. After two years of programming support, participated for 18 months in the design of Bos/360 at the systems development laboratory in Endicott, New York. Presently responsible for systems programming at the Duesseldorf data center.

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Systems Programming. Joined IBM efforts in direct-access storage devices and disk file organization in 1961. Presently responsible for the development of advanced data management and design techniques for intermediate computers.

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