

**HLB Engineering**

Career Timeline

1999 – present	HLB Engineering, Mt. Lebanon PA – Principal Electrical Engineer – in private practice, consulting electrical engineering analysis, design and construction management: utility, industry. Expert witness work.
1999	JSA Architects & Engineers, Pittsburgh PA – Professional Electrical Engineer – electrical engineering analysis, design and construction management: commercial.
1999	State of Pennsylvania – professional electrical engineer’s license.
1997 – 1998	Haight & McLaughlin Engineers, Juneau AK – Professional Electrical Engineer electrical engineering analysis, design, and construction management: utility, institutional, transportation.
1994 – 1997	HLB Engineering, Anchorage AK – Principal Electrical Engineer – in private practice, consulting electrical engineering analysis, design and construction management: utility, industry.
1993	Energy Systems Research Center [ESRC], University of Texas at Arlington, Arlington TX – Post graduate study in electric power engineering; teaching power engineering courses. Courses: power flow, transient/dynamic stability, economic dispatch, unit commitment, ACE/AGC.
1990 – 1992	HLB Engineering, Anchorage AK – Principal Electrical Engineer – in private practice, consulting electrical engineering analysis, design, and construction management: utility, industry.
1988 – 1990	New England Electric System [NEES], Westborough MA – System Protection Engineer – relay and control engineering, analysis, design, and construction management.
1988	State of Massachusetts – professional electrical engineer’s license.
1986	State of Alaska – professional electrical engineer’s license.
1985 – 1987	Alaska Power Authority [APA], Anchorage AK – Operations Engineering Manager – planning, operations and maintenance management for electric power systems: transmission intertie, hydroelectric plant. System studies.
1984 – 1985	University of Alaska at Fairbanks, Fairbanks AK – M.S. Electrical Engineering, electric power and controls.
1981 – 1983	Coffman Engineers, Inc., Anchorage AK – Electrical Engineer – electrical engineering analysis, design and construction management: utility, industry, commercial, institutional.
1978 – 1981	University of Alaska at Fairbanks, Fairbanks AK – B.S. Electrical Engineering, electric power and controls.
1971 – 1977	U.S. Navy Nuclear Power program – reactor plant and steam plant operations.