

CURRICULUM VITA

DENIS W. FERMENTAL
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ACADEMIC RANK: Associate Professor of Electrical Engineering & Computer Science

DEGREES:

1965	Ph.D.	Electrical Engineering, Northeastern University
	Thesis Title:	AOrthogonal Signaling Pulses with the Same Autocorrelation@
1962	M.S.	Electrical Engineering, Northeastern University
1958	B.S.	Electrical Engineering, Tufts University

RESEARCH ACTIVITIES AND INTERESTS:

Control Theory, Analog Electronics, Digital Electronics

APPOINTMENTS AT TUFTS:

1988-1996	Chairman, Electrical Engineering & Computer Science Department
1967-present	Associate Professor of Electrical Engineering (Sabbatical 9/79-1/80)
1963-1967	Assistant Professor of Electrical Engineering
1958-1963	Instructor of Electrical Engineering

INDUSTRIAL CONSULTING:

2002	Technical Consultant, Foley Hoag Law Firm
1980-1999	Control Engineering Consultant, Draper Laboratories, Cambridge MA
1965-1989	Consultant for United Electric Controls Company, Watertown MA

SUMMER EFFORTS:

1983-1993	Research Engineer, Draper Laboratories, Cambridge MA
1971-1982	Research Engineer, United Electric Controls Company, Watertown MA
1958-1970	Research Engineer, Air Force Balloon Astronomy Project, Electrical Engineering Department, Tufts University,

PROFESSIONAL ACTIVITIES:

1988-1997	Academic Advisor to IEEE
1984-1985	Academic Advisor to Tau Beta Pi (for Douglas Preis)
1977-1978	Treasurer, Sigma Xi
1971-1974	Educational Activities Committee and Member of General Committee for NEREM-71, NEREM-72, NEREM-73, and NEREM-74.

PUBLICATIONS:

"A Decomposition of the Jeffcott Rotor", D.W. Fermental, E. Cusson, and P. LaRocco, 2nd International Symposium on Magnetic Bearings, July 1990, Tokyo, Japan.

"Performance Comparison Between Centralized and Decentralized Control of the Jeffcott Rotor", P. LaRocca, D.W. Fermental, and E. Cusson, 2nd International Symposium on Magnetic Bearings, 1990, Tokyo, Japan.
Draper Report CSDL-C-6319, Mk 5 Steller Tracker Functional Description, September 1992, (103 pages)

Draper Report CSDL-P-2920, The Jeffcott Rotor: Its Decomposition and Control, February 1990, (79 pages)

Draper Report CSDL-R-2131, Documentation on the Software to Implement the MARK 6 Inertial Platform Control Laws, April 1989 (262 pages)

Draper Report CSDL-R-1987, An Analysis of the Gimbal Lock Avoidance Control Loop in the Control System for the MARK 6 Inertial Measurement Unit, October 1986 (156 pages)

GRANTS RECEIVED:

- "Industrial Application of Microprocessors", United Electric Controls Company, Watertown MA, 1976-1978
- "Instructional Scientific Equipment Program", National Science Foundation, 1968-1970

HONORS AND AWARDS:

Outstanding Faculty Award, Tufts University, 1996-1997

Lillian Leibner Award for Excellence in Teaching, Tufts University, 1977

Eta Kappa Nu (1966-)

Dolbear Scholarship, Tufts University, 1958

Tau Beta Pi (1957-)

SCIENTIFIC AND PROFESSIONAL SOCIETIES IN WHICH REGISTERED:

Institute of Electrical and Electronics Engineers

Sigma Xi

TUFTS COMMITTEES AND ACTIVITIES:

1997 Subcommittee of Curriculum Committee (College of Engineering)

1993 40-40-20 Committee

1991-1992 Lillian Leibner Award Committee

1989-1990 Academic Standing Committee (College of Engineering)

1988-1996 Executive Committee of the College of Engineering

1988-1996 Chairs Committee

1987-1988 Medford Computer Communications Task Force

1984-1985 Academic Awards (substitution for Douglas Preis)

1984 Academic Standing Committee (College of Engineering)

1984 Advisor Committee on Faculty Personnel (for Prof. R. Reuss, Geology), Spring 1984

1983-1985 Policy and Programs Committee for the Graduate School

1980-1982 Assisted at Tufts/Boston Technical High School college orientation and electrical engineering laboratory program

1980-1981 Committee on Governance and Administration

1979 Search Committee for Engineering Dean
1978-1981 Computer Services Committee
1978 Advisory Committee on Libraries (substitution for Arthur Pike), Fall 1978
1976-1979 Curriculum Committee (College of Engineering)
1976-1979 Policy and Programs Committee (Arts and Sciences)
1976-1978 Educational Policy Committee
1975-1979 Financial Aid and Undergraduate Admissions Committee, (Chairman, 1976-1978)
1973-1975 Committee for New Structure for Graduate School

OUTSIDE ACTIVITIES:

1994 Delegate to the State Democratic Convention
1996 Delegate to the State Democratic Convention