

CURRICULUM VITAE



I - PERSONAL

Family name : Bensoussan

First name : David

Date of birth : November 14th, 1947

Present occupation : Professor
Electrical Engineering Department
École de technologie supérieure
University of Quebec

II - EDUCATIONAL QUALIFICATIONS

a) Academic institutions

1970 TECHNION INSTITUTE, Haïfa, Israel
Bachelor of Science, Electrical Engineering

1978 MCGILL UNIVERSITY, Montreal, Canada
Masters of Science, Electrical Engineering

1982 MCGILL UNIVERSITY, Montreal, Canada
Ph.D., Electrical Engineering

III – RESEARCH GRANTS AND DISTINCTIONS

National Research Council Grant, McGill University, 1978, 1979, 1980.

National Research Council Grant, 1983, 1984, 1985, 1986, 1987, 1988. Topic of research: "*Decentralized Control of Nonlinear Multivariable Systems*".

Fonds Institutionnel de Recherche Grant, University of Quebec, 1983, 1984. Topic of research : "*Decentralized Control of Temperature*".

National Research Council Grant, 1988-1989. Topic of research : "*Spectral Optimization of Binary Signals*".

Matsumae International Foundation, Japan, 1988. Topic of research : "*Robustness Correspondences between State Space Models and Frequency Response Models*".

Programme de support institutionnel à la recherche and Fonds de développement académique du réseau, University of Quebec, 1990, "*Design and Realization of Switched Capacitor Communication Filters*".

National Research Council Grant, 1990-1993. Topic of Research : "*Variable Structure Systems*".

«Fellow» Member, Institution of Electrical Engineers (IEE).

National Research Council, 1990-1993. Topic of Research : "*Systèmes à structure variable*".

Fonds FODAR on Distant Learning: Development of Master Courses in Computer Communications, 1997

Harris Farinon, Industrial Research Grant : "*Stabilization of Microwave Antennas*", 1998-1999.

Fonds de développement institutionnel de la recherche, Publishing, École de technologie supérieure, 1999, 2000, 2002

Gedex, Validation of an aeronautical design for the Space Agency, 2004

General Auditor of the City of Montreal: Water meters acquisition and installation and optimization of the water network, 2009

IV - TEACHING EXPERIENCE

UNIVERSITY OF QUEBEC, ÉCOLE DE TECHNOLOGIE SUPÉRIEURE

(October 1980 to the present)

- . Communication Systems I
- . Communication Systems II
- . Analog Communication
- . Electromagnetic waves
- . Communication Systems
- . Microwave Communication Systems
- . Digital Communication
- . Microwaves

IV - TEACHING EXPERIENCE (cont'd)

- . Antennas and Propagation
- . Telephone Networks
- . Computer communication
- . Introduction to Modern Control
- . Non Linear Control
- . Advanced Control Methods
- . Telecommunications
- . Mobile and IP Telephony
- . Non Linear Control
- . Control I
- . Electronic Circuits

CONCORDIA UNIVERSITY, Department of Electrical Engineering

- Non linear Systems (1986)

ÉCOLE POLYTECHNIQUE, UNIVERSITY OF MONTREAL, Department of Electrical Engineering

- Communication Systems (1985)

McGILL UNIVERSITY, Department of Electrical Engineering

- Signal and Systems (1981, 1982, 1983)
- Electronic Instrumentation (1979)

UNIVERSITY OF QUEBEC IN MONTREAL, Department of Physics

- Electronic Instrumentation (1980)

TECCART COLLEGE, Montreal

- Electronics (1976)

BEN GURION UNIVERSITY, Israel

- Mathematics courses for pre-academic programs

McGILL UNIVERSITY, Teaching assistant (1977-79)

- Random processes
- Information and coding theory
- Frequency response methods in control
- Linear algebra and state space

TECHNION UNIVERSITY, Israel, Teaching assistant (1969-70)

- Mathematics
- Physics

DU LYS ENR., HTTT inc., (1977 to the present)

- Technical training in the field of telecommunications

UNIVERSITY OF QUEBEC, ÉCOLE DE TECHNOLOGIE SUPÉRIEURE, Montreal

- Construction of a communication laboratory on analog and digital Communication systems, 1982-1985.
- Exhibition : Signal Processing in telecommunications, Science and Technology Exhibition, Montreal, May 24 to 31, 1984.

- Direction of the institution of a diploma (certificate) in telecommunications at École de technologie supérieure, University of Quebec, 1984.
- Collaboration with the Office de la langue française for the publication of a French-English dictionary on electrooptics.
- Organization of a conference on the technological challenges of the Information Highway at the Ecole de technologie supérieure, University of Quebec, April 25, 1995.

V - INDUSTRIAL EXPERIENCE

TADIRAN INDUSTRIES, Rehovot, Israel (1970-71)

- Operations Manager

ISRAELI AVIATION, Israel (1971-75)

- Responsible for the development and maintenance of navigation systems

NORTHERN TELECOM, Montreal

- Telecommunication consultant on technical training

INTEGRATED COMPUTER SYSTEMS (1984 to the present)

- Senior Instructor in various fields of telecommunications

BETAWATT INC. (1983 to the present)

- Consulting in Research and Development projects.
- Coinventor of an electronic thermostat sensitive to light and motion.
 - International Gold Design Award, Energy category at the International Market for Innovation and New Technologies, Montreal, Transtech 1987.
 - Finalist in the Gala Energia '92 sponsored by the Association québécoise pour la maîtrise de l'énergie, 1992.