CURRICULUM VITAE

Identification

Gérald Garon,
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Personal data:

Born on the 31st of May, 1944
Married, father of two children.
Bilingual, (French and English)

Education:

- Baccalauréat ès Arts, 1964. This is the final diploma of an eight year course in humanities and science.
- Three years of Architectural studies (1964 to 1967) at Université de Montréal. I spent much time during this course studying psychology of perception, mainly hearing and vision. One of my projects was a computer aided analysis of an architectural complex, from a functional point of view.
- Bachelor of Engineering, Electrical, Concordia University, 1981. This course was completed in four years while working for Automatec, div. of B G Checo Int'l Ltd.

Experience:

Currently owner and President of **Gélogic inc.**, a company aimed at providing engineering services to the automation industry. The scope of activities of Gélogic spans from high level systems analysis to electronic circuit design.

Real-time multitasker for Intel 8085 (MTK-85), 68HC11 (MTK-11), Intel 188 (MTK-88), Siemens C16x, and IBM-PC (MTK-PC).

Timecode converter (Vidéotron); this unit reads VITC (or LTC) timecode and converts it to LTC, displays and sends it to a computer on a serial port.

Conversion of a man-machine interface to IBM-PC for a cement plant (Lafarge Canada, Exshaw, Alberta) and an iron ore treatment plant (Usine des Guelbs, Mauritanie).

Development of SCADA systems (Hydro-Québec).

Improvement of a lottery tichket printer (BABN).

Development of a power switch control system (with STR, for SNEMO).

Data acquisition system for a large cement plant (Lafarge Corp. Alpena, MI).

Graphics editor for a man-machine interface (Lafarge Canada inc. Exshaw, Alberta).

Electric metering system (Energy Sentry, for Siemens).

Scan, print and apply control system (for Astral Tech). This real-time control module interfaces with a 4GL program (Magic Software).

Serial communication module for Magic Software.

Second generation Alarm Management System. The number of points is increase to over 16000. Data is made accessible to standard software packages (via file export and DDE).

Debugging and streamlining of software for a RF tag reader (Destron, Boulder, CO.)

New generation RF tag reader (based on 80C188) for Destron.

SMPTE VITC/LTC timecode reader/generator/converter family family (Micro TC).

Multi-lingual subtitling system (for TV5). Data is transmitted in non-visible part of video and decoded at remote end to display subtitles in the selected language.

DDE servers allowing ActiveX access to Magic Software.

For **H. A. Solutec Ltd**, since may 1984. My first assignment was the development of an automated commercial insertion system for cable TV.

After this project, my time was split between improving existing systems, and developing new products. Among products developed: an audio level meter inserted in video and a family of distribution amplifiers (audio and video). The products developed for Solutec comprise a wide technology mix, spanning from audio and video to digital electronics, microprocessors and software.

With **Digimicro**, I participated in the development of an alsphalt spraying regulator, and an asphalt emulsion production controller.

For **Lafarge Automation**, between October 1982 and January 1984, I was involved in the development of a large scale industrial control system (iron ore plant) and was responsible for the developement of a pre-homogenization machine controller for a cement plant.

At **Automatec**, from January 1978 to October 1982. I have initially been involved in systems analysis and programming of the EPC-3000 supervisory control equipment. My initial assignment was to solve a response time problem. This required a quick understanding of the particular system, an accurate identification of the causes of the delay, the working out of a practical solution based on a precise performance prediction. For the same system (EPC-3000), I designed and implemented a symbolic data base generation procedure. The result was a faster, error free data base construction with a shorter test period.

I was also involved in the writing of several proposals for Supervisory Control And Data Acquisition (SCADA) systems.

I have done the analysis and programming of the encoder portion of the Mexico ticket printing machine controller.

I participated in the design of a control loop compensator circuit, mostly at the circuit configuration level.

As a sale coordinator, I was involved in the sale department re-organization, produced brochures and insured coordination of engineering and sale activities for several proposals, two of which resulted in closing important sales: Newfoundland Light and Power SCADA system and Walt Disney World Automated Admission and Control System.

Back to engineering, I evaluated a microprocessor based communication interface board for Data General computers, and recommended improvements to the manufacturer.

Finally, as a systems engineer on the Walt Disney World project, I have been responsible for the overall system design, specification of the central computer, turnstile and encoder hardware and software, as well as the technical supervision of the development activities. The many and various technical aspects of this development made it both challenging and interesting.

At **Bell Canada**, from May 1977 to January 1978, I was involved in the development and implementation of and OCR based system using IBM-1287 document readers and IBM-370 model 115 and 125 computer under DOS.

At **Bonaventure Design and Programming Ltd**, from March 1973 to May 1977, I wrote a proposal for an electronic reservaton and ticket issuing system for the Grand Théatre de Québec. I was involved in the analysis of a business management system for Delisle Yogourt. Then I was sent to Toronto for one year to work for Computing Devices of Canada, at the Gateway Postal facilities. On this assignment, I analyzed the operation of a complex network of conveyors intended to feed large scale parcel sorters. I also wrote some of the control programs and improved the plant simulator used for software testing. The last assignment was with the Royal Bank of Canada, on a DEC PDP-11 based distributed data processing system. My responsibility was to test DECNET and implement a BISYNC driver for the DV-11 communication unit.

At **OCR Concepts Ltd**, from April 1973 to March 1975. The work I was doing at this company was very similar to that previously done at International Computer Optics Ltd, but using OCR System's equipment instead of the REI equipment. I was also involved in a development effort intended to improve the machine efficiency and ease of programming. My main task has been to redesign and rewrite the document transport control program. OCR Concept Ltd closed its Montréal office in March 1975.

At **Canadian National Railways**, from July 1971 to April 1973. First in a programming team, I wrote mainly COBOL, but also 1401 Autocoder and 360 Assembler programs. Then, for the Materials and Stores department, I worked on various inventory systems and programs.

At **International Computer Optics Ltd**, from May 1970 to June 1971, as a Systems Analyst. I designed forms and wrote programs for several data input systems using Recognition Equipment document and page reader. I wrote proposals, assisted in sale calls, gave seminars and prepared audio-visual materials on Optical Character Recognition. Finally, I was given the complete technical responsibility of direct lawbook conversion project for Université de Montréal. This pilot project was intended to convert the largest part of the text by direct reading on the CompuScan 370 universal microfilm reader. To meet the specifications, it was required to develop special algorithms to recognize beginning of paragraph, end of sentence, etc. The first book had just been successfully completed before the company closed in June 1971. Université de Montréal was directed to Information International Inc. to complete the project.

At the **Service d'Informatique du Ministère de l'Education**, from September 1968 to May 1970. First as a form designer and occasional programmer (IBM-360 model 75, COBOL and Assembler). I was asked to do an extensive survey of all the OCR equipment available at that time and a detailed comparative study of the Philco-Ford, R.E.I. and Scan-Data page readers.

Hobbies and Interests:

Music, classical guitar, piano, bass.
Photography, camera and dark room.
Recording, multi-track and live.
High Fidelity, electronics and loudspeaker design.
Bicycling.
Woodworking.