Barry L. Friedman

Computer Systems Consultant

Mr. Friedman is an independent computer consultant. He has had over 20 years of practical experience in the design and implementation of computer systems and has worked in information systems development, systems and utilities software development, as well as software systems extensions, modifications, maintenance and trouble shooting.

His professional capabilities include:

- □ systems analysis and design
- □ programming
- □ documentation
- □ project management
- □ evaluation and procurement of hardware and software

Though basically a generalist in the computer software field, his recent project experience has focussed on the area of UNIX based workstation environments and the implementation of various software systems to support telephone switch technologists.

Recent assignments:

Northern Telecom Ltd., Ottawa, Ont., *Digital Switching Division*

Integration of the Cybernex-XM3270, a terminal which has the dual personality of being an emulator of IBM 3278 block mode terminals and VT-100 type ansi character terminals, into a multiple-session-managing connectivity system for telephone switch technologists. The project involved devising a method of detecting, by monitoring the input and output streams through the terminal, the mode in which the terminal was operating. Various meta-functions such as escape from current session and terminal refresh in either of its modes were then to be provided. This project included working over the course of a year with terminal development staff at Cybernex-Zavitz to resolve problems with the firmware.

Northern Telecom Ltd., Ottawa, Ont., *Data Networks Division*

Design, implementation and documentation of a system to convert data packet network accounting information to meet U.S. telephone companies standards. (AMA interface)

- Coordination of product specification to track evolving standard.
- Preparation of design documents and user manual to meet BNR and NT standards.

This system has become a standard offering of NT with its packet switching systems in the U.S. Another version was written to meet the specifications of the DBP (Deutches Bundespost.)

Employment History:

From	To	Employer	Position
Aug 85	Present	Emax Computer Systems, Inc.	Consultant
Mar 85	Jul 85	Bell-Northern Research, Inc.	Member of Scientific Staff
Jan 74	Feb 85	Emax Computer Systems, Inc.	Consultant
Nov 68	Dec 73	Quantum Inf. Resources, Ltd.	Sr. Prog/Analyst

References:

Dayle Gowan - Northern Telecom Ltd. 613-727-0300

Bill Brocklebank - Bell-Northern Research 613-726-3863

Sonja Topolinsky - Montreal Woollens, Ltd. 416-846-2603

Community Activities:

Member of board of directors, Ecole Maimonides, Ottawa, Ont.

General Purpose Software applications:

1. Disk Sort/Merge - PASCAL implementation of List merge and replacement selection algorithms
2. Terminal Manager / Data Entry Screen Formatting
3. Terminal protocol emulation routines
4. Resource allocation scheduler for multi-user file system
5. Automated system documentation generator.
6. Industrial Process controller (prototype) for Car wash application.

Data Processing / Information Systems applications

ACCOUNTING

Accounts Payable
Accounts Receivable
Billing
Payroll

PRODUCTION PLANNING

Order entry
Bill of materials explosion
Materials requirements analysis
Production scheduling
Purchasing

INVENTORY CONTROL

STATISTICAL REPORTING

Sales and budget analysis and forecasting

Programming Languages	CPU types	Operating Systems
ASSEMBLER	IBM 370	OS, DOS, VM/CMS
BASIC		
C	Digital PDP-11	RT-11, RSTS/E
COBOL		
FORTRAN	Digital VAX/11	VMS, UNIX, HP-UX
PASCAL		
PL/I	HP-9000, M68000	CP/M
	Zilog Z-80	