



BARRY MIDDLEBROOK, P. ENG

Current
President

MIDDLEBROOK ENGINEERING INC.

CALGARY, AB

- 30 years of professional engineering services for satellite payload and ground stations, telecom, cable TV and aerospace industries.
- Consulting engineer for Xplornet Communications for the Canadian capacity of ViaSat-1 and Hughes Jupiter satellite payload and Gateway implementation.
- Overall system architecture, design and project planning for strategic business ventures.
- RF Systems Engineering, 32/18/16/11/9 Meter Antenna and RF systems alignment testing and certifications of L/S/C/Ku/Ka-Band Systems.
- Consulting Engineer to "The World" luxury cruise ship for IPTV and satellite communications systems.

1993 -2005

Director, Advanced Technology

SHAW CABLE SYSTEMS G. P.

CALGARY, AB

- Built and managed an engineering department of over 100 professional technical staff.
- Developed StarChoice the Canadian small dish satellite TV provider
- Engineered C, Ku and Ka-band satellite systems and uplink teleports
- Engineering and Design of satellite payload systems
- Engineered, constructed and operated a Network Operations Centre tasked with 24/7/365 day-to-day operations for fiber, telecom, internet and video services.

1989-1993

Director, Advanced Technology

CANCOM

MISSISSAUGA, ON

- Developed and implemented a multi-transponder national television distribution system for cable and DTH.
- Developed and implemented a national spread spectrum Ku-band mobile satellite system in conjunction with Qualcomm.

1981-1989

Senior Engineer/Project Manager/Marketing Manager

SED SYSTEMS INC.

SASKATOON, SK

- Responsible for the project management and systems engineering of numerous turnkey satellite systems deployed in Canada.
- Developed Skyswitch VSAT systems, one of the worlds first low-cost VSAT systems for telephone and data
- Responsible for the engineering and construction of the worlds first small dish DBS system, British Satellite Broadcasting (now BSkyB) satellite operations facility in Chillworth, England

EDUCATION

1983

University of Saskatchewan, Saskatoon, SK
Bachelor of Science in Electrical Engineering

ADDITIONAL PROFESSIONAL ACTIVITES

- Past Member of Motorola Technical Advisory Board
- Past Member of Advanced Broadcast Systems of Canada Committee (ABSoC) responsible for ATSC HDTV standard

PROFESSIONAL MEMBERSHIPS

APEGGA/APEGS (Professional Engineering Associations)
SCTE (Society of Cable Television Engineers)
SMPTE (Society of Motion Picture and Television Engineers)

AWARDS RECEIVED

1995 - Awarded the E. R. Jarman Award for Cable Television Engineering, in recognition of personal work in developing standard definition and high definition digital television.