

**PAI**303 Bagot Street, Suite 501 Tel: (613) 545-3303 jhparker@parker-inc.com
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BRIAN KEITH

EDUCATION

1957 B.Sc., Math, Physics, Chemistry, University of Manitoba, Canada

PROFILE

Mr. Keith has over 35 years experience in systems assurance and over 25 years experience in the transit industry. His experience includes writing proposals, planning programs, estimating, designing system assurance databases, maintenance planning, maintenance facility planning. Industry experience includes communications, aerospace and transit:

- Systems Assurance Analysis
- Establishing System Assurance Requirements
- Analysis of Operations and Maintenance Data
- Analysis of Maintenance Cost Data
- Administration of Reliability Demonstrations
- Operations and Maintenance estimating
- Life Cycle Cost Planning
- Maintenance Facility Planning

Representative major project assignments include:

- Las Vegas Monorail
- JFK Airport System
- Vancouver SkyTrain

EXPERIENCE

2002 – present **Associate, Parker & Associates, Inc., Ontario, Canada**

- Review of vendor technical proposals and preparation of equipment descriptions for bid proposals.

2000 – present **Independent Consultant, Parsons Transportation, New York, USA**

- Carried out a system level FMECA on the Taiwan High Speed Rail System.
- Managing Systems Assurance programs for the, East Side Access (Long Island Rail Road), and the Pasadena Blue Line projects. The programs include:
 - Systems Assurance program planning
 - Data retrieval and analysis from operating system
 - Development of supplier requirements
 - Demonstration methods
 - Development on Systems Assurance Database
 - Hazard Analyses

1991 – present **Independent Consultant, Dellner Couplers, Falun, Sweden**

- Established a Systems Assurance discipline for Dellner Couplers. This included:
 - Life Cycle Cost analysis
 - Spares and support planning
 - RMS analyses including FMECAs, Maintenance and Hazard
 - Development of analysis database and methods

1992 – 1999 **Maintenance Planner, Bombardier Systems Division, Ontario, Canada**

- Carried out operations and maintenance planning and estimating in support of responses to RFP's. Activities included:
 - Definition of organizations to carry out Operations and Maintenance
 - Layout and sizing of maintenance and storage facilities
 - Estimating operating and maintenance costs
 - Participation in a corporate Life Cycle Costing task force to develop and improve methods of estimating life cycle costs and to develop a corporate database

1986 – 1992 **Reliability Maintainability Specialist, Urban Transportation Development Corporation (UTDC), Ontario, Canada**

- Managed reliability demonstrations, analyzed operating systems, and maintained a database to compare systems.
- Performed reliability and maintainability analyses as required.

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- Developed reliability models and provide subsystem requirements for new development.
 - Provided Systems Assurance portions of proposals.
 - Gathered data from operating companies.
 - Projects included the managing the reliability demonstrations for the Toronto H6 subway fleet and the Toronto Rapid Transit system in Scarborough. This included identifying problem areas and failure mechanisms and assisting in their resolution as well as general administration of the demonstrations.

1981 – 1986 **Supervisor Systems Assurance, Metro Canada Limited, Ontario**

- Managed the Reliability Maintainability Availability programs for the Vancouver SkyTrain, Detroit People Mover and Scarborough Rapid Transit System, including: for development of:
 - Modeling
 - R&M system and vehicle requirements
 - Reliability and maintainability requirements placed on subcontractors
 - Evaluation of supplier submittals
 - Evaluation of system performance during testing
- Provided initial maintenance planning and the conceptual layout and facility planning for the Vancouver SkyTrain and the Detroit People Mover storage and maintenance facilities.

1976 – 1980 **Senior Staff (&M), Canadair, Quebec and Ontario, Canada**

1971 – 1976 **Scientific Staff. Manager Quality Assurance Tracking, Bell-Northern Research, Ottawa and Montreal, Canada**

1965 – 1971 **Project Engineer/Supervisor Reliability Maintainability, Computing Devices of Canada, Ontario, Canada**

1957 – 1965 **Engineering Associate, Manitoba Telephone System, Manitoba, Canada**

PROFESSIONAL AFFILIATION

- Society of Reliability Engineers