



**Newbridge Networks – Product Integrity**

Kanata, ON

**1994-1995 Network Tester (Co-op)**

- Developed automated network configuration software.

**Royal Bank of Canada – Technology Development**

Toronto, ON

**1993 LAN Administrator (Co-op)**

- Designed network topologies and supported internal users.

**Education****University of Waterloo**

Waterloo, ON

**1992-1997 Bachelor of Applied Science in Systems Design Engineering (Intelligent Systems)**

- Graduated with Honors in top 10 of class.
- Courses in Robotics, Control Theory, Artificial Intelligence, and Pattern Recognition.

**Patents**

**United States #5,999,865 / Canada #2,260,374** “Autonomous Vehicle Guidance System”  
**United States #6,633,800 / Canada #2,333,781** “Remote Control System”

**Awards and Certificates**

**2007** Fundamentals of Criminal Intelligence (International Assoc. of Law Enforcement Analysts)  
**2007** Certificate of Recognition for Outstanding Performance (Canadian Space Agency)  
**2006** Certificate of Recognition for Outstanding Performance (NASA)  
**2005** Innovation Award Nomination (MDA Space Missions)  
**2000** “Who’s Who in Robotics” (Lexington)  
**1997** Ontario Engineering Competition, Corporate Design, 1<sup>st</sup> place (OEC)  
**1997** Canadian Engineering Competition, Corporate Design 2<sup>nd</sup> place (CEC)  
**1996** Outstanding Co-op Student Distinction (University of Waterloo)  
**1993** Success Leadership Certificate (Toastmasters)  
**1992** International Computer Problem Solving Contest Regional Winner 2<sup>nd</sup> place  
**1991** International Computer Problem Solving Contest Regional Winner 1<sup>st</sup> place  
**1990** International Computer Problem Solving Contest Regional Winner 2<sup>nd</sup> place

**Publications**

*Evolution of Autonomous Underground Vehicle Guidance Systems*  
Canadian Institute of Mining (CIM) Bulletin January 2004

*A Proposed Guidance System For Autonomous Underground Vehicles*  
Canadian Institute of Mining (CIM) Bulletin January 2001

*Towards an Infrastructureless Guidance System*  
1st International Workshop on Advances in Robotics for Mining and Underground Applications  
Brisbane, Australia October 2-4 2000

*Universal Control Console*  
1st International Workshop on Advances in Robotics for Mining and Underground Applications  
Brisbane, Australia October 2-4 2000

*Navigation System for Autonomous Underground Mining Vehicles*  
Systems Design Engineering Workshop Symposium  
University of Waterloo, Ontario March 1997

**Professional Memberships**

- Professional Engineers of Ontario (PEO)
- Canadian Space Society
- Canadian Institute of Mining Advanced Systems and Technology Committee

**Personal Interests**

Composing and performing music, wilderness camping, retrocomputing, geocaching, electronics tinkering, traveling, Steampunk subculture.

**References**

Available upon request.