

## Summary



- 20+ years of **software** development and application in leadership and technical roles.
- Helped conceive, plan and execute projects, products and strategies in **diverse sectors** including healthcare, transportation, tourism, marine technology, environmental non-profit, natural resource management and conservation biology.
- Works closely with clients and collaborators on geographic information systems (GIS) for **conservation** planning, trail and park **mapping**, regional and watershed **planning**, information crowdsourcing and **web-based** delivery, and other applications.
- Master of Science (Geography), focused on GIS for land management **decision support**.
- Skilled in spatial analysis and geoprocessing automation on **ArcGIS**, IDRISI and PostGIS platforms.
- Expertise in relational **databases**, object-oriented development and web-server software.

## Employment

Feaver's Lane

2010-; 1993-1998

Feaver's Lane Enterprises Inc., St. John's

### GIS Analyst, Software Developer, President

- Provides GIS analysis, design, customization, development, mapping and teaching.
- Provides information systems planning, integration and development for private- and public-sector organizations.
- Works with the Nature Conservancy of Canada ([natureconservancy.ca](http://natureconservancy.ca)) on conservation prioritization for the Boreal Plains ecozone of western Canada. Models take into account a variety of biotic and enduring features, and will support a range of land-use planning from government protected areas and wildlife management to private land acquisition by land trusts to environmental impact assessment of proposed projects.
- Works with the Canadian Boreal Forest Agreement ([cbfa-efbc.ca](http://cbfa-efbc.ca)) to help the forest products industry and environmental organizations find compromises that enhance protection of natural values while supporting industry and communities.
- Works with the Conservation Biology Institute ([consbio.org](http://consbio.org)) to enhance the Linkage Mapper ([circuitscape.org/linkagemapper](http://circuitscape.org/linkagemapper)) tools to incorporate climate change projections, custom data and expert opinion in the corridor prioritization process.
- Worked in recent years with the International Model Forest Network, Nunatsiavut Government, Northeast Avalon Atlantic Coast Action Plan, Pippy Park Commission, East Coast Trail Association, Islands Trust and others.



2013-2015

Too Big To Ignore project, Memorial University of Newfoundland, St. John's

### Senior Information Systems Analyst (part-time)

- Supported an international research network and knowledge mobilization partnership to promote small-scale fisheries and argue against their marginalization.
- Designed, developed and managed the Information System on Small-scale Fisheries ([issf.toobigtoignore.net](http://issf.toobigtoignore.net)), which uses crowdsourced data collection and supports information discovery through maps and queries.



2010-2013

Nature Conservancy of Canada (NCC), St. John's

### GIS and Conservation Planning Analyst

- Applied GIS to systematic conservation planning at province-wide ([nlnatureatlas.ca](http://nlnatureatlas.ca)), regional and local scales.
- Supported conservation land "securement" (fundraising, acquisition, stewardship).
- Represented NCC on municipal and provincial environmental advisory committees.



2004-2008

International Communications and Navigation Ltd. (ICAN), Mount Pearl (now CNS Systems)

**Software Engineering Team Leader**

- Led the project researching the next generation of ICAN's marine navigation and surveillance products, and developing prototypes.
- Helped architect and build key components including data management, communications and user interface for 2D and 3D graphical displays.
- Designed and developed products using C# and SQL Server.
- Understood and documented customer requirements and high-level system design of products and components.
- Mentored staff in database design, Structured Query Language and C#.

1998-2004

International Communications and Navigation Ltd. (ICAN), St. John's (now CNS Systems)

**Systems Engineering Manager, Information Systems Manager, Technical Services Manager**

- Contributed to, edited and coordinated ICAN's investor business plan, which resulted in a seven-figure capital infusion.
- Worked with other company leaders in strategic planning, project management, human resource scheduling and management, proposal writing and reporting.
- Managed Systems Engineering staff responsible for customer requirements, high-level systems design, customer proposal development, systems integration and training.
- Managed, analyzed, designed and developed information systems for all business functions. Key tools included SQL Server, Exchange, Visual Basic, Access and Outlook.
- Headed ICAN's product Technical Support with responsibility for testing, integration, installation, customer training, help desk and field support.
- Supported ICAN's administration functions including accounting systems, operations management and facilities management.




1991-1998

Newtel Information Solutions Limited, St. John's (previously Newfoundland and Labrador Computer Services; subsequently xwave; now Bell)

**Systems Analyst, Programmer**

- Consulted to public- and private-sector clients on numerous software applications, as detailed in CV.
- Progressed steadily from a programmer to a systems analyst skilled in technical and application architecture for Windows client/server and web applications.
- Regularly involved with project budgeting, proposal writing, developer mentoring, user training and documentation development.

<p><b>Education</b></p> 	<p>2008-2010 Memorial University of Newfoundland, St. John's <b>Master of Science (Geography)</b></p> <ul style="list-style-type: none"> <li>▪ Academic focus in GIS, decision support, spatial analysis and natural resources.</li> <li>▪ Research focus in using GIS-based multiple-criteria decision analysis (MCDA) for integrated land management.</li> </ul> <p>2004-2005 Memorial University of Newfoundland, St. John's <b>Geography and Math (part-time)</b></p> <ul style="list-style-type: none"> <li>▪ Undergraduate courses as prerequisites for a Master of Science program.</li> </ul> <p>1985-1991 Memorial University of Newfoundland, St. John's <b>Bachelor of Commerce (Co-operative) Honours</b></p> <ul style="list-style-type: none"> <li>▪ Elective courses in Management Information Systems, Management Science, International Business, Small Business, Finance, Computer Science and Geography.</li> <li>▪ Three industry work terms.</li> </ul>
<p><b>Complete CV &amp; References</b></p>	<p>Available upon request</p>