

## Summary



- 25+ years of **software** application and development in facilitation, leadership and technical roles.
- Has helped conceive, plan and execute projects, products and strategies in **diverse sectors** including conservation biology, natural resource management, environmental non-profit, marine technology, transportation, tourism and healthcare.
- Works closely with clients and collaborators on geographic information systems (GIS) analysis, cartography and customization for **conservation** planning, species **mapping**, watershed **planning**, web-based crowdsourcing and 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**, PostGIS, R, QGIS and other platforms.
- Expertise in business modelling, **database systems** and object-oriented development.

## Employment





Feaver's Lane

2010-

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

**GIS Analyst, Software Developer, President**

- Provides independent consulting for decision support, primarily based on geospatial tools, information and analyses.
- Provides information systems planning, integration, development and mentoring for non-profit, private-sector and public-sector organizations.
- Works with NatureServe Canada ([natureserve.ca](http://natureserve.ca)) as the Ecosystem-based Automated Range (EBAR) technical coordinator, developing and managing spatial databases, tools, workflows and supporting materials for species range mapping from observation data, and coordinating development of web-based expert review tools.
- Works with World Wildlife Fund Canada ([wwf.ca](http://wwf.ca)) and partners to facilitate identification and prioritization of potential sites for coastal, estuarine and riverine restoration and enhancement. Spatial multi-criteria decision analysis is supporting the process by incorporating existing data as well as traditional, local and other expert knowledge on priority aquatic species, other biotic factors, degradation and threats.
- Works with the Canadian Parks and Wilderness Society ([cpaws.org](http://cpaws.org)) to provide scientific and technical support for advocacy on public protected areas, sustainable forest management and indigenous-led conservation.
- Worked with the Nature Conservancy of Canada ([natureconservancy.ca](http://natureconservancy.ca)) on conservation data preparation, modelling, assessment, prioritization and custom spatial tools development for terrestrial, freshwater and marine ecosystems across Canada. Analyses considered a variety of biotic and enduring features and threats, and support a range of land-use planning from protected areas and wildlife management, to oil and gas rights relinquishment, to climate change mitigation and adaptation, to environmental impact assessment of proposed projects.
- Worked with the Conservation Biology Institute ([consbio.org](http://consbio.org)) to enhance the Linkage Mapper ([circuitscape.org/linkagemapper](http://circuitscape.org/linkagemapper)) Python ArcGIS tools to incorporate climate change projections, custom data and expert opinion in corridor prioritization.
- Worked with the Canadian Boreal Forest Agreement to help the forest products industry and environmental organizations find compromises that enhance protection of natural values while supporting industry and communities.
- Worked with Fisheries and Oceans Canada, Sustainable Forestry Initiative, Nunatsiavut, Northeast Avalon Atlantic Coast Action Plan, International Model Forest Network, Pippy Park Commission, East Coast Trail Association, Islands Trust and others.

	<p>2013-2015</p> <p>Too Big To Ignore project, Memorial University of Newfoundland, St. John's</p> <p><b>Senior Information Systems Analyst (part-time)</b></p> <ul style="list-style-type: none"> <li>Supported an international research network and knowledge mobilization partnership to promote small-scale fisheries and argue against their marginalization.</li> <li>Designed, developed and managed the Information System on Small-scale Fisheries (<a href="http://issf.toobigtoignore.net">issf.toobigtoignore.net</a>), which uses crowdsourced data collection and information discovery through maps and searches. The stack includes PostGIS, Django and Leaflet.</li> </ul>
	<p>2010-2013</p> <p>Nature Conservancy of Canada (NCC), St. John's</p> <p><b>GIS and Conservation Planning Analyst</b></p> <ul style="list-style-type: none"> <li>Applied GIS to systematic conservation planning at provincial (<a href="#">Labrador Nature Atlas</a>), regional and local scales.</li> <li>Supported conservation land "securement" (fundraising, acquisition, stewardship).</li> <li>Represented NCC on municipal and provincial environmental advisory committees.</li> </ul>
	<p>2004-2008</p> <p>International Communications and Navigation Ltd. (ICAN, now CNS Systems), Mount Pearl</p> <p><b>Software Engineering Team Leader</b></p> <ul style="list-style-type: none"> <li>Led the project researching and prototyping the next generation of ICAN's marine navigation and surveillance products.</li> <li>Helped architect and build key components including data management, communications, reporting and user interface for 2D and 3D graphical displays.</li> <li>Modelled, designed and developed products using C# and SQL Server.</li> <li>Understood and documented customer requirements and high-level system design of products and components.</li> </ul> <p>1998-2004</p> <p>International Communications and Navigation Ltd. (ICAN, now CNS Systems), St. John's</p> <p><b>Systems Engineering Manager, Information Systems Manager, Technical Services Manager</b></p> <ul style="list-style-type: none"> <li>Contributed to, edited and coordinated ICAN's investor business plan, which resulted in a seven-figure capital infusion.</li> <li>Worked with other company leaders in strategic planning, project management, human resource scheduling and management, proposal writing and reporting.</li> <li>Managed Systems Engineering staff responsible for customer requirements, high-level systems design, customer proposal development, systems integration and training.</li> <li>Analyzed, designed, developed and managed information systems for all business functions. Key tools included SQL Server, Exchange, Visual Basic, Access and Outlook.</li> <li>Headed ICAN's product Technical Support with responsibility for testing, integration, installation, customer training, help desk and field support.</li> <li>Supported ICAN's business processes and administration functions including accounting systems, operations management and facilities management.</li> </ul>
	<p>1991-1998</p> <p>Newtel Information Solutions Ltd. (previously Newfoundland and Labrador Computer Services; subsequently xwave; now Bell), St. John's</p> <p><b>Systems Analyst, Programmer/Analyst</b></p> <ul style="list-style-type: none"> <li>Consulted to public- and private-sector clients on numerous software applications, as detailed in CV.</li> <li>Progressed steadily from a programmer to a systems analyst skilled in technical and application architecture for Windows client/server and web applications.</li> <li>Regularly involved with project budgeting, proposal writing, developer mentoring, user training and documentation development.</li> </ul>

<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> <li>▪ Internship with Canadian Forest Service.</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</b></p>	<p>Available at <a href="http://feaverslane.com/">http://feaverslane.com/</a></p>