

Niall Bell

MAPM | GradIEMA | MSc Environmental Management

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Open Work Permit valid until February 2027 | Eligible to work in Canada without restriction

PROFILE

Environmentalist and project manager with an MSc in Environmental Management and a background spanning mechanical engineering, sustainable management, local government, and green technology. I work at the intersection of environmental science and technology, visualising data and building platforms, mapping tools, and decision-support systems that translate conservation science into accessible resources for land managers, planners, and the public.

Currently based in Squamish, BC, where I serve on the board of Nature Squamish and contract to the regions Wildlife Connectivity Project. I build and maintain the EcoScapes website and map portal, a WordPress/Python-based web platform integrating Felt mapping with biodiversity and connectivity data for the Sea-to-Sky region. My technical work is grounded in deep environmental science knowledge and an understanding of how these tools are used in practice by non-technical stakeholders.

CURRENT ROLES (CANADA)

Nature Squamish | *Volunteer Director and Contractor*

Oct 2025 - Present

- Board member with responsibility for technology strategy and data infrastructure across the organisation's conservation programmes in the Sea-to-Sky region. (*Volunteer*)
- Lead the organisation's bird monitoring programme, migrating data collection from paper records to eBird, updating survey protocols, and building a custom web portal to analyse and visualise the resulting 30+ year longitudinal dataset for communications, public access, and conservation reporting. (*Volunteer*)
- Built and maintain the EcoScapes map portal, a Python/Django web application integrating Felt mapping layers, biodiversity data, and wildlife connectivity models into a publicly accessible decision-support platform for land managers and partners. (*Contractor*)
- Developed a personal birding data analysis application available on the Apple App Store, allowing individuals to analyse their eBird records across multiple dimensions. (*Personal – Volunteer*)

BCCF (WildSafeBC) | *Human-Wildlife Conflict Coordinator*

May - Nov 2025 and 2026

- Seasonal coordinator for human-wildlife conflict prevention and community education across the Sea-to-Sky region, BC.
- Manage field reports of wildlife conflict, public engagement, incident data recording, and reporting to inform provincial wildlife management decisions.
- Liaison with Conservation Officers Service to develop strong working relationships that benefit residents and wildlife and improve response times in non-critical situations.
- Provide education and information sharing across all levels within the community to raise awareness of human-wildlife conflict, mitigate common causes, and build community capacity to handle conflict situations.

PREVIOUS EMPLOYMENT (UK)

City of Doncaster Council | *Low Carbon Development Officer*

Dec 2022 - Dec 2024

- Led delivery of EV charging infrastructure and solar projects for council assets within a newly created low carbon development role.
- Managed a team overseeing utility contracts worth over GBP 10m per year and delivered the council's fuel poverty support service.
- Developed plans to implement Government funding to boost EV charging infrastructure across the city, handling councillor concerns, resident consultation, highway planning, and project management.
- Wrote and managed grant funding bids, planned delivery timelines, and produced compliance reporting.
- Worked closely with planning, sustainability, and natural environment teams within a local authority policy environment.

Go Green Ltd | Sustainability and Projects Specialist / Account Manager

Feb 2017 - Dec 2022

- Progressed through multiple roles in a tech-focussed waste management Small-Medium Enterprise (SME) ultimately leading on sustainability strategy, carbon reporting, and software project management (data portal).
- Developed and implemented the company's sustainability and Corporate Social Responsibility (CSR) framework from the ground up, including carbon reporting methodology and CSR strategy.
- Project managed development of software services and drove internal process improvement. Produced board-level reporting and delivered client sustainability training.

Howdens Joinery | CNC Technical Machine Programmer and Operator

Oct 2014 - Feb 2017

- Programmed and maintained advanced Computer Numerical Control (CNC) machining equipment.
- Wrote Standard Operating Procedures and led process improvement initiatives.
- Maintained tooling and monitored quality control.

Kaye Aluminium Ltd | CAD Technician and Technical Support (Apprentice)

Oct 2012 - Oct 2014

- Produced 2D technical drawings in AutoCAD (Computer Aided Design) for aluminium extrusion tooling.
- Quality inspection and customer account management.

TECHNICAL SKILLS

Languages	Python (primary), HTML, CSS. Can read and work with JavaScript with reference to documentation and AI-assisted development tools.
Frameworks	Django, Flask; Supabase (PostgreSQL in production); Vercel and GitHub Pages.
Mapping and GIS	Felt, QGIS. Familiar with common geospatial formats including GeoJSON, Shapefile, GeoTIFF, and WMS. Functional rather than specialist.
Data	REST API integration, Pandas, eBird API. Management of a production Supabase database for a live application.
Dev workflow	Git, Pycharm, Xcode, Jupiter. I support AI-assisted coding for accelerated development and capability providing manual coding and review skills are not lost.
Other	WordPress, Google Analytics, 2D/3D CAD, Machine Programming (GCODE & Object Oriented), drone piloting (UK CAA and Transport Canada certified, 10+ years), photography and videography (10+ years), graphic design (5+ years).

DOMAIN KNOWLEDGE

Ecology	Strong working knowledge of earth science, ecosystem science, biodiversity, conservation, and climate change, underpinned by BSc and MSc qualifications.
Env. Management	Skilled in environmental management contexts, with knowledge of environmental decision making frameworks, systems thinking, environmental assessment, sustainability management, and environmental monitoring and protection.
Community science	Active eBird/iNaturalist contributor. Designed and implemented data collection protocols for volunteer bird monitoring programmes in the Sea-to-Sky region. Conduct Nature Canada Owl Surveys and support in various monitoring projects.
Spatial data	Familiarity of habitat connectivity concepts and geospatial data. Comfortable working with spatial datasets and understanding their ecological significance.
Policy	Experience working within local authority structures in the UK and gaining knowledge about similar structures in Canada and the US. Familiar with planning processes, public consultation, and grant compliance.
Project management	APM Full Member. Experienced in managing funded projects, stakeholder relationships, and team delivery.

EDUCATION (UK)

MSc Environmental Management	MSc Degree	Merit	2024
BSc Natural & Environmental Science	BSc (Hons)	2:2	2021
Carbon Literacy	Carbon Literacy Project	Achieved	2022
NVQ Level 3 Mechanical Engineering	NVQ Level 3	Achieved	2017
Mechanical Engineering	BTEC Level 3	Pass	2014

PROFESSIONAL MEMBERSHIPS AND CERTIFICATIONS

- GradIEMA: Graduate Member, Institute of Environmental Management and Assessment
- MAPM: Full Member, Association for Project Management
- Drone Pilot: Certified in the UK (CAA) and Canada (Transport Canada), 10+ years' experience

Professional references available on request