



Cordillera Consulting LLC

Kurt Ingold

Geospatial and Hydrographic Information Specialist

1251 Aspen Valley Drive: Hailey, Idaho 83333

Phone +1(406)830.8846

Email: kurtingold@gmail.com

Summary of Qualifications

- Proficient with the following Software: ArcGIS (ESRI Desktop, Web and Enterprise platforms), SonarWiz (Chesapeake Technology), Kingdom Suite (Seismic Micro Technology), Global Mapper, Surfer (Golden Software), Civil 3d 2014 (AutoCAD), QGIS, QINSy, ProSAS, GRASS GIS, Caris HIPS and SIPS, Microsoft Office Suite, Adobe Creative Suite.
- Professional offshore experience with geophysical data processing – including side scan and synthetic aperture sonar imagery, shallow penetration acoustic systems (e.g. sub-bottom profiler and single-beam echosounder) and bathymetric systems (multibeam and single-beam) for the purpose of sonar mosaic construction and interpretation, geophysical data integration, and seafloor target acquisition.
- Professional experience collecting, processing, repairing and analyzing raster and vector geospatial datasets – including high precision GPS systems, database management, topology, data integration, spatial modeling, and interpretation.
- Professional experience preparing cartographic displays – including published maps, stand-alone interpretive displays, thematic and topographic maps, National Environmental Policy Act (NEPA) projects, and rapid response maps for Homeland Security.
- Professional leadership experience in remote, technical and challenging environments – including extended wilderness settings, mountaineering instruction, search and rescue (land based), emergency medicine, and offshore experience in commercial fishing.

Professional History

03/2014-Present: Geospatial and Hydrographic Specialist - Cordillera Consulting LLC

Duties include specialization in file format, data standards, software and hardware associated with the acquisition, processing and interpretation of seismic and acoustic data for the purpose of hydrographic, and geophysical analysis. Experience on offshore multinational operations. Additional consulting on use of Unmanned Aerial Vehicles for terrain and image collection.

05/2009- 06/2013: GIS and Wildlands Education Specialist – US Forest Service

06/1999-11/2009: Seasonal Forestry Technician – US Forest Service

Year round duties included collection, analysis and presentation of GIS data, management of Wildlands Education Program, Winter Field Program and Wilderness Ranging. Seasonal roles included Livestock Packer/Outfitter, Trail Crew Foreman, and Initial Attack Wildland Firefighter.

07/2006 – 08/2009: Instructor (Patrol Level) - National Outdoor Leadership School

Fully qualified mountaineering and rock climbing instructor for extended (four week+) wilderness courses including glacier travel, lead climbing, multi-pitch routes, expedition planning, backcountry skills and high-angle rescue techniques.

Education

University of Southern California - Los Angeles, California USA

M.S. Geographic Information Science Technology – 2014

- Elective focus on Spatial Analysis, Cartography and GIS Project Management.
- Thesis: “Remote Analysis of Avalanche Terrain Features: Identifying Routes, Avoiding Hazards”
Transcript available at: <http://spatial.usc.edu/wp-content/uploads/2014/04/IngoldKurt.pdf>
- Fieldwork on Catalina Island, California designing data dictionaries and field trials to correlate positional accuracy of survey grade GPS units (Trimble Juno and GeoX models) to terrain roughness and slope position.
- GPA 3.5.

University of Montana - Missoula, Montana USA

B.S. Environmental Geology – 2003

- Emphasis on climate change and GIS (through Forestry Department).
- Fieldwork in Southwestern Montana mapping geologic features and cross sections.
- Professional fieldwork in West Central Montana identifying and mapping sedimentary formations.
- GPA: 3.3

University of Iceland - Reykjavik, Iceland

Undergraduate exchange student in Earth Sciences Program - 2002

- Coursework in Glaciology, Quaternary Environments, Environmental Geochemistry and Volcanology.
 - Glaciological fieldwork on Skaftafell Ice Cap and Myrdalsjukull Glacier.
 - GPA: 4.0
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Professional Certifications

- National Avalanche Foundation School For Winter Outdoor Professionals: Phase I and II
- Wilderness First Responder (Current through January,2017)
- Leave No Trace Master Educator
- US Forest Service Qualifications: NEPA Specialist, Wildland Fire Natural Resource Advisor, Type II Wildland Firefighter, Class B Feller/Bucker (power and crosscut saws), Snowmobile Operator, Trailer Towing, Master Livestock Packer.